	62 PCM primer JM20. 57 Human obesity-asso 11 Human silent nonco			43 Cm A sense PCH pri 63 Biotinylated Inter 98 VEGF 2'-NH2-RNA nu								5 PCR primer for 69 PCR primer of the		89 E. coli biotin DNA					67 Double-stranded ad 49 HIV-1 gpl20 V3 loo					O3 CATZ.5 gene initia					7) PCR primer No. USE (26 Ceramide affinity		101 Human obesity-asso 33 Human Factor VIIIC						Human	HUMBER SILPOTTO	Tag sequence	Primer catl(+)	S. aureus OS2 srtA Probe CAT 03. bind	Maize polymorp
AA236482 ABL94487 AAV19879	ABK40757 ABK40757	AAV58151 AAV58098	AAVS8U AAVS81	AAVU3163 AAVU3163 AAC88998	AA0933	AAF 706 AAZ 276	ABNB60	AA2231	AAV2753 AHQB500	AA2662	AA26/0	AAV05466 AAV05469	AA2671	AAX027	AAX915	AAT7714	AAA609	AAA97	AAV27067 AAT42149	AAS170	AB0850	AAT707	AAV25	AAV256	ABAO4	AA035	AA2344	AA2910	AAF25	AATOA	ABK40901	AAO68	AAS43	AAF57	AAV56632	AAL.29	AAL31:	AAL 52	AAN92	AAX58	AAC65624	AAV51
21 24 19																																										
E E & & & & & & & & & & & & & & & & & &	4 4 A	88.8	35.5	37 50 50	30	30	33	30	566	47	. 4	0 0 <b>7</b>	7	300	33	42	4 4	53	3 2	34	3 6	9	7 7	<b>=</b>	7 7	4 2	4 4		t t	9 .	- 4 - 6	20	S ~	42	4 4	35	200	200	7.7	31	= =	3
क्षक्ष क्षक्षक क्षक्षक	7 7 7	7.7	12	<u> </u>	7 7	<b>.</b>	7.7	===	2 7 7	7 7	13	13	13	3 2	13	3.5	2.5	13.	<u> </u>	Ξ;	7 7	Ξ:	- 13	12	22	22		7	*1 (*1	<u> </u>	7.5	-1	22	12			=:			77	===	
17.8 17.8 17.8 17.8	17.6	17.2	17.2	17.2	üü	71	71	16.8	9 9 9	16.3	16.9	16.6	16.9	16.6	16.4	16.4	16.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	910	16.2	16.2	19	91	9.7	9,		15.8	15.8	25. 4	5.5
10 12 13	125	17	19 20	22 52	24 25	26 27	<b>5</b> 8	30.5	33	* 5	36	37	36	⊋ ⊊	7:	::	4 5 6 6	<b>2</b>	4. 4. 00 Q	20	2.2	53	χ. •	26.	57	200	9 5	62	Ş <b>9</b>	65	99	89	69	7.2	72	7.	7.5	9,7	78	4	080	85
ပပ	000	000	ပပ	υυυ	υυ	υu		υ¢			υ	υc	1	ပေ		υ				ပ			נינ	ט נ			υ (	•		U	ر	U	ပ	ر	ပ	U		,	ر	υ	(	9 0
.j.6 ompugen Ltd.		ch time 213 Seconds thout alignments)		gctgctgaattgcagtttag 120			nes	ers: 2165242						esegn-embl/NA1980.DAT:	neseqn-embl/NAI982.DAT:	eseqn-embl/NA1984.DAT:*	esegn-embl/NA1985.DAT:	esegn-embl/NA1987.DAT:	esegn-embl/wal988.DAT:• nesegn-embl/wal989.DAT:•	neseqn-embl/NA1990.DAT:	:nesegn-embl/NA1991.DAT:* nesegn-embl/NA1992.DAT:*	neseqn embl/NA1993.DAT:	nesegn-embl/NA1994.DAT:•	neseqn -embl/NA1996.DAT:	nesegn - embl/NA1997.DAT:	nesegn embl/NA1999.DAT:	neseqn-emb]/NA2000.DAT:*	neseqn-embl/NA2001B.DAT:	:neseqn-embl/NA2UUZ.DAT:•	ou	t the result	2			Description	Biotinylated inter	Human MEKK4 antise	Human MEKK4 antise	Human map-related	HHV-6 associated m	Neomycin resistanc	Synthetic Fn3 gene
Gencore version 5. Copyright (c) 1993 - 2003 Co	nucleic . nucleic search, using sw model	on: June 17, 2003, 20:23:15 ; Searc		Title: US-09-676-436-3_COPY_3264_3383 Perfect score: 120 Sequence: 1 togatgccatagtgacctc	able:	Gapop 10.0 , Gapext 1.3	Searched: 2185239 seqs, 1125999159 residu	Total number of hits satisfying chosen paramete	Minimum DB seq length: 8 Maximum DR seq length: 50		Match		Geneseq_101002:*	/SIDS2/gcgdata/geneseq/ge /SIDS2/gcgdata/geneseg/ge	3: /SIDS2/gcgdata/geneseq/gene	/SIDS2/gcgdata/geneseq/ge	/SIDS1/gcgdata/geneseq/ge	/SIDS2/gcgdata/geneseq/ge	/SIDS2/gcgdata/geneseg/ge /SIDS2/gcgdata/geneseg/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g /SIDS2/gcgdata/geneseg/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	/SIDS2/gcgdata/geneseq/g	No. is the number of results	score greater than or equal to the score and is derived by analysis of the total s		SUMMARIES	Result Query	No. Score Match Length DB ID	20.4 17.0 45 18	20 16.7 20	20 16.7 20 24	19 15.8 47 21	18.4 15.3 40 16	25	17.8 14.8 38

Jun

Wed

Bacteriophage peptide library;peptide epitope; therapeutic target; variegated compound library; ss. consensus ligand sequence 1 DNA

```
The present invention relates to antisense compounds, compositions and methods for modulating the expression of MRK4 (also referred as mitogen activated protein kinase kinase 4; MAP144; MAP three kinase 1; MAP18K kinase kinase 4; MAP1844; MAP three kinase 1; MAP18K kinase kinase 4; MAP18K4; MCK13, The antisense oligos are useful for inhibiting the expression of MCK4 in cells or tissues. They are also useful for treating an animal having a disease or condition associated vith MRK4 such as immunological, inflammentory, hyperpoliterative disorder or cancer. Sequences of the invention are also useful for disances: therapeutics, prophylaxis and as research resigned and kits. They are also useful in antisense charapy. The present sequence is an antisense oligonucleocide targetted to human MEK4 DNA. This sequence is us useful new exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense compound targeted to nucleic acid encoding mitogen-activated protein kinase 4, useful for treating immunologic disorder, inflammatory disorder or cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16.7%; Score 20; DB 24; Length 20; 106.0%; Pred. No. 1.1e+03; tive 0; Mismatches 0; Indels
/*tag= c
/mod_base= OTHER
/note= "2'.methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 4 A; 8 C; 4 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ward DT, Gaarde WA, Monia BP, Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           51 AGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; Page 92; 132pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 AGGGATTCAGGGGTTCCAGC 1
                                                                                            /*tag= d
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                       /*tag= h
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mod_base m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mod_base= m5c
                                                                                                                                                                                     /mod_base m5c
                                                                                                                                                                                                                                                          /mod_base- m5c
                                                                                                                                                                                                                                                                                                     /•tag= 9
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-SEP-2001; 2001WO-US30549.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-SEP-2030; 2000US-0676436.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
Best Local Similarity 106.0 Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= k
                                                                                                                                                                 tag= e
                                                                                                                                                                                                                                   tag. f
                                                                                                                                                                                                                                                                                                                                                                                                                                               /•tag- i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .tag- )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-416486/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200227033-A1.
                                                                     modified_base
                                                                                                                                       modified_base
                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
                                           ô
                                                                                                                                                                                                                                                                                               The present sequence encodes an exemplary consensus sequence obtained after paning with the D-enaningmer of interleavin-9 (II-8). The sequence was obtained using the method of the invention. The method identifies was obtained using the method of the invention. The method identifies compounds which interact with a target melecule, and compicises contacting a screening molecule with a variegated compound library, where the carged molecule so fails a variegated compound library, where the carged molecule so fails are selected, and the ability of their with the target molecule are selected, and the ability of their carget protein on the method molecule protein of a target protein (a D-target protein) and a variegated compound library, and cargined because for a farget protein (a D-target protein), and a variegated compound library, and charged protein (a D-target protein) and a variegated compound library, and cargined because of identified by compliance of targets such as receptors, animages, but had not proteins or signal transduction cargined an addition to scoring for interaction of targets such as represent in addition to scoring for interaction of targets such as a process. The method as proteins and adversarily as peptides but with the same diversity as a peptides but with the greatly improved pharmacokinetic profiles needed for drug activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human: WEKK4 modulation; mitogen-activated protein kinase kinase 4; WTK1; MAPKK4; MAP Fire kinase 1; MAPCRK4; prophylaxis; immunological; hyperproliferative disorder; cancer; therapy; antisense; inflammatory; phosphorothioate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                           Identifying compounds which interact with target molecules - using enantiomers of the target molecules and testing of enantiomers of selected compounds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query March 17.0%; Score 20.4; DB 18; Length 45; Best Cocal Similarity 71.1%; Preci No. 1e+03; Hawliches 27; Conservative 0; Hismatches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human MEKK4 antisense oligonucleotide, ISIS #123085.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag- b
/mod_base- OTHER
/mod_base- 1-methoxyethyl nucleotides*
16.20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 GCCATAGTGACCCTCCTAACCCACACCTCATTATCCCC 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                44 GCCCAGGGGCCCAATAACCAAACTTCTTAGCCC 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note- *Phosphorothloate backbone*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 45 BP; 6 A; 9 C; 21 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                          Disclosure, Fig 5; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD37150 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-AUG-2002 (first entry)
(HARD ) HARVARD COLLEGE.
                                                                                            WPI: 1997-480355/44.
                                                                                                                     P-PSDB; AAM42244.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mod1fied_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
Synthetic.
                                                Forster AC:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD37150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 2
AAD37150/c
```

g

õ

SYLX SYNE E STEEL STEEL

ö

0: Gaps

Page

ö

Caps

.. 0

```
disorder or cancer. Sequences of the invention are also useful for diagnostics, therapeutics, prophylaxis and as research reagents and kits. They are also useful in antisense therapy. The present sequence is an antisense oligonucleotide targetted to human MEKK DNA. This sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; sFV library: single chain monoclonal antibody fusion reagent; transcription regulation: screening; diagnosis: HIV; Hepatitis A. Hepatitis B respiratory syncitial virus; Junin virus: cytomegalovirus; Herpes simplex virus: trubella; Varicella Zoster virus; hantavirus; Epstein-Barr virus; dongue: Ebola inter alia; cancer:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes methods of screening a DNA construct library for a single chain monoclonal antibody fusion reagent capable of bunding a transcriptional associated blomolecule in vivo. The antibodies are useful in treating Hepatitis A and B respiratory synctial virus, HIV, Junin virus, Herpes simplex i and II, rubella, cytomegalovirus, Varicella Zoster virus, Epstehn Barr virus, measles, hanavirus, dengue, Ebola inter alia and cancer. Expression vectors that encode the fusion antibodies may be used in gene therapy. The methods can be used to create and isolate the fusion antibodies. The monoclonal antibody fusion reagent can be used to regulate transcription in vivo. AAX76591 to AAX76674 represent specifically claimed PCR primers used in the construction of a human sfv library.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antibodies from libraries useful in treating viral infections and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 48;
                                                                                                                                                                                 Length 20,
                                                                                                                                                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human sFv library construction PCR primer SEQ ID NO:85.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 19.2; DB 20;
pred. No. 2.9e+03;
                                                                                                                                                                                 Query Match
16.7%; Score 20; DB 24; L
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 20; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 48 BP; 10 A; 14 C; 12 G; 12 T; 0 other;
                                                                                                                                      Sequence 20 BP; 7 A; 5 C; 5 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 23; Page 108; 132pp; English.
                                                                                                                                                                                                                                                                       ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene therapy; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16.0%;
62.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97WO-US21407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97WO-US21407
                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX76673 standard; DNA: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-AUG-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (INVI-) INVITROGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hoeffler JP, Russell M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-371138/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9928502-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6661-NDC-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX76673:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer
                                                                                                                                                                                                                                                                                                                  888888888
                                                                                                                                                                                                       Human: MEKK4 modulation: mitogen-activated protein kinase kinase 4; MTK1; MADRA4; MAP three kinase 1; MAPVERK kinase kinase kinase kinase ti propitylaxis; immunological; hyperproliferative disorder; cancer; therapy; antisense; inflammatory; phosphorothioate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to antisense compounds, compositions and methods for medulating the expression of MEKK4 (also referred as mitogen-activated protein kinase 4: MAPIX4; MAPIX4; MAPIX4; MAPIXA; MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New antisense compound targeted to nucleic acid encoding mitogen-activated protein kinase 4, useful for treating immunologic disorder, inflammatory disorder or cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "2'-methoxyethyl nucleotides"
                                                                                                                                                                 Human MEKK4 antisense oligonucleotide, ISIS #123138.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note= "2'-methoxyethyl nucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mod_base= OTHER
/note= "Phosphorothicate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                             Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 3; Page 93; 132pp; English.
/mod_base- OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= f
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag= g
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /•tag= h
/mod_base= m5c
```

```
04 - NOV - 1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24-MAR-1994;
05-AUG-1994;
                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04 - NOV - 1994;
05 - NOV - 1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W09512313-AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAY-1995.
                                                                                                                                                                                                                                                                                                                                                                                        mutation
                                                                                                                                                       AAC91033;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAQ78509;
                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA265654 to AA269578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AA26959 to AA27740 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and happing of the human genome, and in complex association studies and happing of the human genome, and in complex association studies and happing of the human genome, and in complex association studies and persent of the invention can also be useful for the identification of the targets for the development of pharmaceutical agence and diagnostic methods, as well as the effect of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel biallelic markers used to construct a high density disequilibrium map of the human genome \,\cdot\,
0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N.B. The Sto ID Nos 2852, 2913, 2974, 3015, 3096, 3157, 3227, 3297 and 3187, are not accually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag- a
/standard_name- *single nucleotide polymorphism*
                                                                                                                                                                                                                                                                                                                       Human genome: biallelic marker: high density disequilibrium map: genomic map; haplotype; phenotype; polymorphic base: genotyping: haplotyping; hydridisation; identification: characterisation; diagnosis; single nucleotide polymorphism; SNP; ds.
                                   Owery March 15.84; Score 19; DB 21; Length 47; Best Local Similarity 65.18; Pred. no. 3.4e+01. Arches 28; Conservative 0; Mismatches 15; Indels
0; Mismatches 18; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39 TCCCCACTCCAGAGGATTCAGGGGTTCCAGCGTTCCTGAAAA 81
                                                                                                                                                                                                                                                                                        Human map-related biallelic marker SEQ ID NO:2840. .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 47 BP; 12 A; 9 C; 14 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cohen D, Blumenfeld M, Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
replace(24,T)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 3; Page 836; 2745pp; English.
                                                                                                                                                                       AAZ68493 standard; DNA; 47 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-IB00822.
Matches 30; Conservative
                                                                                                                                                                                                                                                  10-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-013267/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W09954500-AZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-0CT-1999.
                                                                                                                                                                                                                AAZ68493;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     variation
```

```
0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treatment of human herpes-virus-6-associated multiple sclerosis - using an antiviral agent. e.g. a nucleoside analogue, administered to the cerebrospinal fluid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAO91033 is the human herpcs virus-6 (HHV-6) associated multiple scierosis (MS) genetic marker, RF1. The genetic marker can be used in the diagnosis of MS.
                                                                                                                                                                                                                            Human herpes virus-6; HHV·6; multiple sclerosis; genetic marker; RFI; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= a /*tag= a /*to a /*th adenine*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
15.34; Srore 18.4; DB 16; Length 40;
Best Local Similarity 6-44; praced No. 5.2e+03;
Matches 25; Conservative 0; Hismatches 11; Indels (
                                                                                                                                                                       HHV-6 associated multiple sclerosis genetic marker RF1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Brown JP, Burmer GC, Challoner PB, Nowinski RC;
Parker JD, Smith KT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   81 ATGATCGATTGGCTTCCATAGCTGCTGAATTGCAGT 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36 ATGAGCTTCTCGTTTCTATACCTGCATGACAGT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 40 BP; 13 A; 9 C; 9 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neomycin resistance gene primer EXneo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 34; 116pp: English.
                                                                                                                                                                                                                                                                                                                                                                          Location/Qualiflers
AAQ91033 standard; DNA: 40 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAG78509 standard; DNA: 47 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94US-03344B2.
93US-0149176.
94US-0218029.
94US-0287942.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       94WO-US12655.
                                                                                                                 30-JAN-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-JUL-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PATH-) PATHOGENESIS CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI: 1995-215032/28.
```

```
AA265654 to AA269578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AA265979 to AA277440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for discess states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of characterisation of the differential efficacious responses to and side characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                               Novel bialielic markers used to construct a high density disequilibrium map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fibronectin type III; En3; monobody; beta-strand domain; loop region; specific binding partner; SBP; catalysis; LRS; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  treatment.
N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 47:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 18.2; DB 21;
Pred. No. 6.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 47 BP; 9 A; 15 C; 7 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic En3 gene constructing oligo FN5R'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12 CCAAATTGATTCACTAGTTCCAGCTTCCCTG 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              47 CCAGAGGGATTCAGGGGTTCCAGCGTTCCTG 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match 15.2%; Score 18.2% Dest Local Similarity 74.2%; Pred. No. 6.5e Matches 23; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (RESE ) RESEARCH CORP TECHNOLOGIES INC
                                                                                                                                                                    Chumakov 1;
                                                                                                                                                                                                                                                                                                                   Claim 3; Page 801; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-0049410.
                   99WO-1B00822
                                                            98US-0082614
98US-0109732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98WO-US12099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX05511 standard; DNA; 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                    Cohen D, Blumenfeld M,
                                                                                                                                                                                                             WPI; 2000-013267/01
                                                                                                                           (GEST ) GENSET
                   21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W09856915-A2
                                                            21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX05511;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Koide S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 9
AAX05511
ID AAX0
    ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A neomycin resistance gene-contg. DNA fragment was generated by PCR usinglprimer Exneo (AAO7899) which contains nucleotides 149-177 of the neomycin phosphotransferase gene and sites for EcoRi and Xhol. and primer BglII-linked 3 neomycin (AAO78510) which contains the reverse complement to the neomycin resistance gene nucleotides 922-945 and a BglII site. The PCR fragment was used in the construction of a polygistronic vector PPBM5 for expression of neomycin phosphotransferase; the vector also contained a BiP IRES-containing DNA fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human, genome; biallelic marker; high density disequilibrium map;
genomic map; haplotype; phenotype; polymorphic base; genotyping;
haplotyping; hybridisation; identification; characterisation;
diagnosis; single nucleotide polymorphism; SNP; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
Gene transfer; Human GRP78; giucose-regulated protein; BIP;
Immunoglobulin heavy-chain blading protein; IRES;
Internal ribosome entry site; polycistronic retroviral vector;
neomyclin phosphotransferase; neomyclin resistance; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Retroviral vectors - express multiple polypeptide subunits of eukaryotic protein and uscful for mediating gene transfer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Watch
Local Similarity 66.7%: Pred. No. 6.5e+03;
hes 26; Conservative 0; Mismatches 13; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                53 GGATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGATTG 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human map-related biallelic marker SEQ ID NO: 2675.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 47 BP; 15 A; 10 C; 12 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualiflers replace(24.G)
                                                                                                                                                                                                                                                                                                                                                                                    Banerjee PT, Seed B, Le Guern CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 35; 63pp; English.
                                                                                                                                                                                                                                     94WO-0S00650
                                                                                                                                                                                                                                                                            93US-0006478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ68328 standard; DNA; 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                (BIOT !) BIOTRANSPLANT INC. (GEHO !) GEN HOSPITAL CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1994-357769/44.
                                                                                                                                                                                                                                17-JAN-1994;
                                                                                                                                                                                                                                                                            20-JAN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W09954500-A2
                                                                                                                                              W09424870-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-0CT-1999.
                                                                                                                                                                                       10-NOV-1994
                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            variation
```

Ouery Match tches

NAME OF THE PROPERTY OF THE PR

AA268328;

RESULT B

g

. 0

Gaps

;

ö

Gaps

ö

12; Indels

DB 21: Length 38:

```
The present invention relates to fibronectin type III (Fn1) molecules comprising a stabilising mutation as compared to a wild type Fn3. Fn3 can be used as a scatical to engineer actificial binding proteins.

Modifications of the Fn3 scaffold that increase its stability are useful in that they allow the increduction of more mutations for better functions, and that these make it possible to use Fn3 based engineered proteins in a wider range of applications. The present sequence is an oligonalized described in the exemplification of the invention.
with the carboxy, terminal amino acids of MMACI (see AAY53754).
Specifically, it appears that domain 7, 10 and 13 interact with MMACI.
Since MMSC2 contains 11 PDZ domains and interacts with NMACI, at known tumour suppressor having a region of homology with protein tyrosine phospatases. WMSC2 acts as a scafeding protein in a common blological pathway with MMACI. It is believed that the interaction between MMACI and MMSC2 is required for the tumour suppressor activity of WMACI. The WMSC2 polypeptides, polynucleotides, fragments and specific or complex specific antibodies may be used for detecting cancer or a predisposition to cancer and screening loss agents that may be used to treat MMSC2 and VMMCI related cancer. The polypeptides and polynucleotides may also be used to treat cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New fibroncetin type III molecule comprising a stabilizing mutation, useful for introducing more metations for better functions, and in a wider range of applications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fibronectin type 3: mutant: stabilising mutation; Fn3; antibody; binding protein; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           37 TATCCCCACTCCAGAGGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 14.8%; Score 17.8; DB 24;
Best Local Similarity 67.6%; Pred. No. 8.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Overy Match 14.8%; Score 17.8; DB 21;
Best Local Similarity 67.6%; Pred, No. 8.5e+03;
Matches 25; Conservative 0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                             Sequence 38 BP: 9 A: 10 C: 11 G: 8 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 38 BP: 8 A: 11 C: 12 G: 7 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fibronectin 3 coding sequence fragment FNSR'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (RESE ) RESEANCH CORP TECHNOLOGIES INC. (KOID/) KOIDE S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Paye 133: 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABL94487 standard; DNA; 38 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JUL-2001; 2001WO-US21855.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-JUL-2000; 2000US-217474P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-JUN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI: 2002-171708/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200204523-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JAN-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AB194487;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Koide 5:
       88888888888888<mark>×8</mark>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a synthetic fibronectin type III (Fn3)

Croplypeptide monobody that comprises Fn3 beta-strand domain sequences that are linked to loop region sequences (LMSS). One or more of the loop sequences in the synthetic Fn3 vary by deletion, insertion, or replacement of at least 2 amino acids from the corresponding LMSS in vild-type Fn3 wise cells containing an expression vector comprising the cultarype Fn3 unclein acid are used for the production of the Fn3 monobody. The invention also provides methods of identifying the amino cold sequence of a polypeptide molecule (1) capable of binding to a specific binding partner (SMP) so as to form a polypeptide sMP complex; (11) capable of catalysing othemical reaction with a catalysed rate occusion. Knot. and an uncatalysed rate constant, Knot. and an uncatalysed rate constant, Knot. and an uncatalysed rate constant. Such that the ratio of the Knat/Kunca is greater than 10, Sequences AAX05501-18 represent oligos used for constructing a synthetic Fn3 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; NMSC2; NMAC1; PDZ domain; tumour suppressor; tyrosine phosphatase;
scafolding protein; cancer; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primers AA236460-236519 were used to amplify the human MMSC2 gene.
The MMSC2 protein has 11 post-synaptic density protein, disc-large, zo-1
(PD2) domains and one or more of these domains interacts specifically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acids and polypeptides representing human MMSC2, useful for detecting, diagnosing a predisposition to, and treating cancer \cdot
                                                              Production of antibody compounds, particularly catalytic antibodies - using a fibrometin type III molecular scaffolding comprising beta-strand domain sequences and modified in one or more loop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ć
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer 9BP.3B used for PCR amplification of the MMSC2 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
14.8%; Score 17.8; DB 20; Length 38;
Best Local Similarity 67.6%; Pred. No. 85-649;
Matches 25; Conservative 0; Mismatches 12; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52 GGGATTCAGGGGTTCCAGCGTTCCTGAAATGATCGA 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 GGGATCCACGCGTGCCACCGGTACGTAATCGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 38 BP; 8 A; 11 C; 12 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 5; Page 56; 112pp; English.
                                                                                                                                                                                                             Example 1: Page 23; 96pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ36482 standard; DNA; 38 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-MAY-1999; 99WO-US09569.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0084740.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MYRI-) MYRIAD GENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-FEB-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bartel PL, Tavtiglan SV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MPI; 2000-053077/04.
       WPI; 1999-060331/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9958548-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-NCV-1999.
                                                                                                                                                          sednences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA236482;
```

g

ò

Length 38:

윱

```
42 AACAACTGGAATCCAAAGTTGCTGAAGCTCAGTGGAG 6
                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rejection
                                                                                                                                                                      AAV19879;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                        g
                                                                                                                                                   This sequence represents a primer for the human interferon-gamma R2
(No. 1872) colons. The amplified sequence is used in the chimeric receptor
(A) of the invention, for cellular activation, which comprises an
extracellular domain (ECD) capable of interacting with a
cytokine intracellular domain (ICD) capable of interacting with a
a cytokine intracellular domain (ICD) capable of interacting with a
cytokine intracellular formation in signal transduction, with the
construction of that the cytokine ICD is not naturally associated with the ECD.
The chimeric receptors can be used for reconstitution of cellular
activation to a ligand where some deficiency prevents activation by the
constitue parhway. Vectors containing by encoding (4) can be used to trace
contine parhway. Vectors containing by encoding (4) can be used to trace a disease or disorder characterised by
controphils, basophils and polymorphonuclear leukocytes. The effector
cells can be used to treat a disease or disorder characterised by
controphils, basophils and polymorphonuclear leukocytes. The effector
cells can be used to treat a disease or disorder characterised by
controphils, basophils and polymorphonuclear leukocytes and as califormune disease. The vectors can also be
contained activities or growth factor sensitivities in
responder cells, e.g. to develop an assay system in which cells not
confailly responsive to a given or growth are rendered responsive, and for
celling the activation pathways of unknown cytoplasmic domains.
  ö
                                                                                                                                                                                                                                                                                                                                                         PCR primer: chimeric receptor; cellular activation: Jak-Stat protein; cytokine intracellular domain; viral infection; cancer; therapy: inflammatory disease; autoimmune disease; human; interferon-gamma R2; hu-IFN-R2; ss
    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chimeric receptors for cellular activation - comprising an extracellular domain and a cytokine intracellular domain capable of interacting with a Jak-Stat protein
    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ch 14.8%; Score 17.8; DB 19; Length 44; 1. Similarity 67.6%; Pred. No. 8.9e+03; 25; Conservative 0; Mismatches 12; Indels (
  Mismatches 12; Indels
                                                                 152 GGGATTCAGGGGTTCCAGCGTTCCTGAAATGATCGA 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 44 BP: 8 A: 12 C: 10 G: 14 T: 0 other;
                                                                                                                                                                                                                                                                                                                Primer for human interferon-gamma R2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 55; 113pp; English.
    ó
                                                                                                                                                                                       AAV19827 standard; DNA; 44 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96US-0683744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97WO-US12456.
                                                                                                                                                                                                                                                                       19-JUN-1998 (first entry)
Matches | 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (UYNE-) UNIV NEW JERSEY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kotenko SV. Pestka S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-110604/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-JUL-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo saptens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          W09802558-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-JAN-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                AAV19827;
                                                                                                                                                RESULT 12
```

```
This sequence represents a primer used in the construction of the recombinant DNA (I) of the invention. (I) comprises a sequence (S1) cerombinant DNA (II) of the invention. (I) comprises a sequence (S2) cercoding the interleukin-10 (II-10) receptor (III0R) and a sequence (S2) cercoding CRFB4, both operably linked to expression control sequences. (CC cells containing (I) may be used to identify agonists/antagonist of cells containing an expension, as vaccine adjuvants, for treatment of photosensitivity, inflammation, autoimmune disease and septic shock, while antagonists are potentially useful for Increasing Immune responses against tumours, or inflammation, autoimmune disease and septic shock, while antagonists are potentially useful for Increasing Immune responses against tumours, or vivuses, bacteria and parasites (especially intracellular pathogens) and cor preventing organ rejection. A vector containing (I) is used to adysfunctional IUIDR and is able to bind IL-10 but not to transduce a dysfunctional IUIDR and is able to bind IL-10 but not to transduce a dysfunctional IUIDR and is able to bind IL-10 but not to transduce a dysfunctional IUIDR and is able to bind IL-10 but not to transduce a signal and in calls. Antibodies specially ribozymes), can inhibt contrivity in calls. Antibodies specially ribozymes; cretivity in calls. Antibodies specially representative or fragments of (I) are used as primers or probes to assay CRFB4 specific cretally especially by intravenous injection or directly into a tumour or allograft.
                                                                                                                                                                                                                                                                                                                                                                                    CREB4: interleukin-10; IL-10; IL-10 receptor: allograft rejection: accine; photosensitivity; inflammation: autoimmune disease; PCR primer; septic shock: immune response; organ rejection; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New recombinant DNA - comprises sequences encoding interleukin-10 and CRFB4 linked to operator, useful, e.g. preventing allograft
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14.8%: Score 17.8; DB 19; Length 44; 67.6%; Pred. No. 8.9e+03; Live 0; Mismatches 12; Indels 0
                                                                                                                                                                                                                                                                                                   Primer used in CRFB4/IL-10R recombinant DNA construction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84 ATCGATIGGCTTCCATAGCTGCTGAATTGCAGTTTAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 44 BP; 8 A; 12 C; 10 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 45; 79pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97WO-US12455.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96US-0683743.
AAV19879/C
ID AAV19879 standard: DNA; 44
                                                                                                                                                                                                                  23-JUN-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 67.6
Matches 25: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYNE-) UNIV NEW JERSEY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pestka S:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-110590/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9802542-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-JUL-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-JAN-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kotenko SV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
```

Matches

84 ATCGATTGGCTTCCATAGCTGCTGAATTGCAGTTTAG 120

.: O

0; Gaps

```
Human: obesity associated-biallelic marker: chromosome 10; obesity; ds;
drug response; hyperunicaemia; digestive pathology; hypertension; cancer;
hepatic function disorder: cardiovascular disease; hyperlipidaemia;
insulin disorder: atheromatous disease; cardiac insufficiency.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Set of novel map-related biallelic markers, preferably located on obesity disorder-associated chromosomal regions on chromosomes 3, 10 and 19, useful. for e.g. detecting statistical correlations between marker allele and a phenotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Coben D, Blumenfeld M. Chumakov I, Abderrahim H, Bihain B;
                                                    Human obesity-associated chromosome 10 biallelic marker #5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 193; 311pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-JUL-2000; 2000US-219704P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-JUN-2001; 2001WO-1B01477.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-155043/20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MO200206525-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                                             Homo saptens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-JAN-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primers AAT88158-T88162 are used in the construction of surface reposed (laston proteshs containing a bacterial autoriansporter membrane integration region with the antigenic determinant of a passenger.

Derotein. Such proteins are used in a novel method which allows the protein. Such proteins are used in a novel method which allows the presentation of stable fusion puppetities on the surface of method can be used to produce a variegated population of surface presented polypeptides, so that bacteria expressing polypeptides so that bacteria expressing polypeptides of surface presented polypeptides. So that bacteria expressing polypeptides of the presented polypeptides and or beinderfilled and simultaneously selected, e.g. for epitope mapping or selection of ligands with the highest of the integration of prepare and process food.

The propare washing compositions and label cells: Selected bacteria cones.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Presentation of peptide(s) on surface of Gram-negative bacteria · via transformation with vector encoding signal peptide, presented peptide and transporter domain of auto-transporter, producing peptide libraries for epitope mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Autotransporter; diagnostic; therapy; Gram-negative bacteria; surface presented polypeptide; fusion protein; PCR primer: ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14.7%: Score 17.6; DB 18; Length 45; 65.0%; Pred. No. 1.1e+04; titve 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 45 BP; 12 A; 6 C; 11 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 3; Fig 6; 84pp; German.
                                                                                             AAT88162 standard; DNA; 45 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jose J. Maurer J. Meyer TF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96WO-EP01130.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96WO-EP01130
                                                                                                                                                                                                                                                                                         11-MAY-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1997-480227/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                 PCR primer JM20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9735022-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-SEP-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                           AAT88162;
RESULT 14
AAT88162/c
```

```
ö
The Invention relates to a set of novel map-related biallelic markers, preferably located on obestyr disorder-associated chromosomal regions on chromosomes 3.10 and 19. The markers are useful for genotyping or estimating the frequency of an allele in a population, for detecting an association between a genotype or haplotype and a phenotype, e.g. disease involving drug responses, obesity or disorders related to obesity, such as hyperuicamis, dispessive pathology, hepalic (unction disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia, insulin disorders, atheromatous disease and cardiox insulficiency. The markers are useful for detecting a statistical correlation between a biallelic marker obesity-associated biallelic marker located on chromosome 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human: single nucleotide polymorphism; SNP; polymorphism; cytostatic;
immonosuppressive; antinitammatory; aeuroprotective; antimicrobial;
autoimmunc disease; inflammation: cancer; nervous system disease;
inflammation: cancer; nervous system disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14.7%; Score 17.6; DB 24; Length 47;
Smilarity 67.6%; Pred, No. 11e+04.
23; Conservative 1: Mismatches 10; Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human silent noncoding SNP oligonuclectide SEQ ID NO:302.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22 TAACCCACACCTCATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 47 BP: 9 A; 9 C; 11 G; 17 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11:111111 1: 111 11 11111111
35 TAACCCACAGEWACACATCTTCAGCACAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABL00311 standard: DNA: 50 HP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
14.7%
Best Local Similarity 67.6%
Matches 23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABL00311;
```

;;

0: Gaps

28 ACACCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCC 67 

ô 8

26; Conservative

ABK40757 standard; DNA; 47 BP.

21-MAY-2002 (first entry)

ABK40757;

31 - MAY - 2001

```
A method has been developed for the high efficiency assembling of multiple DNA fragments. The method comprises: (1) providing each fragment with at least one overhang that is: (a) capable of hydrogen conding to a complementary sequence on a second fragment; and (b) at least long, and (i1) mixing the fragment; and (b) at least long, and (i1) mixing the fragments under conditions that will promote joining. Also described are: (1) a DNA fragment with either on overhang of at least 15 bases, or an end portion suitable for conversion to such an overhang, and (2) a DNA construct prepared by the above method. Any8119 to Any88168 are PCR primers used in the method of the invention in examples shown in the present invention; increasing the length of the overhang from 12 bases (prior art) to 15 results in a framatic increase in annealing efficiency and specificity. This allows the ratio of reagents to be reduced from 1:100-300 to about 1:1, and permits multiple fragments (three or more) to simultaneously join congernate than prior art techniques, producing a higher yield in a shorter length of time.
                                                                                                              Assembling DNA fragments - using complementary overhangs longer than 14 bp to obtain high rates of annealing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer; multiple DNA fragment single step assembly; promoter; regulatory function; simultaneous assembly; genetic engineering; construct; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Single step assembly of multiple DNA fragments - useful to join
tragments with regulatory function e.g. promoters, and fragments
encoding proteins to produce constructs for genetic engineering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer designated 3595 from WO9838297 Example 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14.3%; Score 17.2; DB 19; 73.3%; Pred. No. 1.4e+04; tive 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GESH-) GESHER-ISRAEL ADVANCED BIOTECS 1996 LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 35 BP; 17 A: 4 C; 9 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      89 TTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 41; 53pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98WO-IL00095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              971L-0120338.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV58098 standard; DNA; 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-NOV-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 73.39
Matches 22; Conservative
                                                                   WPI: 1998-481200/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1998-481199/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W09838297-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sharon G:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV58098;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV58098/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABLO0010 to ABLO0104 represent human nucleic acid oligonucleotides comprising one or more single nuclectide polymorphisms (SNPs). ABB56531 to ABB56904 represent human peptides encoded by some of the SNP oligonucleotides. The sequences from the present invention can have immunosuppressive, cytostatic, antiniflammatory, neuroprotective and antibodies from the present invention can be used for treating a and antibodies from the present invention can be used for treating a pathology may be autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathology. The single from a pathology may be autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathologent curcorganisms. The SNPs are also useful for determining which forms of a characterised polymorphism are present in individuals. The antibodies may be used in the detection, quantitation and/or callular or tissue localisation of a polymorphic protein (e.g., for use in measuring levels of the polymorphic protein within appropriate physiological samples).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                         Isolated human nucleic acids comprising one or more single nucleotide polymorphisms, useful for treating a subject suffering from a pathology, e.g. autoimmune diseases, ascribed to the presence of a sequence polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer: multiple DNA fragment assembly; complementary overhang; annealing; specific; spontaneous; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14.5%; Score 17.4; DB 23; Length 50; 68.6%; Pred. No. 1.3e+04; tive 0; Mismatches 11; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cmr PCR primer designated 3595 from WO9838298 Example 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GESH-) GESHER-ISRAEL ADVANCED BIOTECS 1996 LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 50 BP; 21. A; 9 C; 10 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page 339; 674pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV58151 standard; DNA; 35 BP
                                                                                           22-NOV-2000; 2000MO-US32311.
                                                                                                                                      99US-0167383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           971L-0120339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98MO-1L00096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity hes 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-NOV-1998 (first entry)
                                                                                                                                                                                                                             Shimkets RA, Leach M;
                                                                                                                                                                                       (CURA! ) CURAGEN CORP
                                                                                                                                                                                                                                                                                WPI: 2001-355949/37.
WO200138586-A2
                                                                                                                                      24-NOV-1999;
```

WO9838298-A1.

Synthetic.

AAV58151;

Ouery Match

q

26-FEB-1998; 27-FEB-1997;

03-SEP-1998

ö

Gaps

& <del>X</del> 888888888888888888888888888

```
Example 1; Page 30; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 73.31
22: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI: 1998-481201/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WC9838299-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Sim
Matches 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sharon G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV58173;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV58173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3
                      A method has been developed for the simultaheous assembly of two or more double-stranded DNA fragnents, particularly fragnents produced by primer extension reaction and especially by FOR or by restriction cleavage.

ANYS034 to ANYS318 are PCR primers for use in the method of the invention, and which are used in examples in the present invention. The method can be used to join DNA fragments having a regulatory function of e.g. promoters, enhancers, terminators or thosome binding sites) and fragments encoding proteins e.g. enzymes (expecially cultrate synthases, polymetide synthases and succinyl con-synthetide synthases and succinyl con-synthetide synthases. Constructs produced are useful in genetic enginementing to promoter constructs produced are useful in genetic enginement of the promoter. Onstructs produced are useful in genetic enginement of the produce and construct in which the protein is under the control of the produce and construct in which the protein is under the control of the promoter, or new chimeric promoters or protein is mutant fragment which has been subjected to site-directed mutangeness or mutant fragments in a directional manner, since joining occurs in a single con be joined efficiently.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer: simultaneous ligation; multiple DNA fragment; assembly; primer extension generated double stranded DNA fragment; UDG; uracil DNA glycosylasc; one-step multiple DNA fragment cloning method; dU rosidue; apurinate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel one-step method for cloning multiple DNA fragments - uses primers containing an apurinated site for generating single strand nick followed by dissociation to produce annealable overhangs
                                                                                                                                                                                                                                                                                                                                                                                                                                                              14.3%; Score 17.2; DB 19; Length 35; 73.3%; Pred. No. 1.4e+04; tive 0; Mismatches 8; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer designated 35972 from WO9838296 Example 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GESH-) GESHER-ISRAEL ADVANCED BICTECS 1996 LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 35 BP; 17 A; 4 C; 9 G; 5 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89 TTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
Example 1: Page 40; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAVS8077 standard; DNA; 35 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98WO-IL00094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     971L-0120337.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-NOV-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag- a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity 73.33
es 22; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI: 1998-481198/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-PER-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9838296-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-SEP-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV58077;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MISC_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 19
```

â ô

```
A method has been developed of ligating 2 or more double stranded DNA conditions and pecules produced e.g. by PCR. The method complete produced to mode the part of primers complementary to each end of the DNA molecule where the primers may also be partially complementary to a second and/or third primers may also be partially complementary to a second and/or third contains a decay uracil (dd) residue replacing a decay-thymidiume (dT) residue at least 15 nuclectides from the 5' end of the primer; (11) annealing the primer and extending the DNA fragment by a primer extension reaction; (iii) adding UDG (uracil) DNA glycosylase) to apurinate the du residue, and a second enzyme or compound by a sprimer extension reaction; (iii) adding UDG (uracil) DNA glycosylase) to apurinate the du residue; (10) alsociating the nicked oilgonuclectides continuated du residue; (10) alsociating the nicked oilgonuclectides canneal to a second or third fragment and ligating them to generate a multi-DNA fragment assembly product. ANY88076 to AAV58093 are PCR contains assembly moders, the method allows the simultaneous and directional cioning of the construct.

So more double stranded DNA fragments. The method avoids the time generation of the construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A method has been developed for the simultaneous multi-DNA assembly of at least 2 double-stranded DNA fragments produced by primer extension reaction, especially the polymerase chain reaction (PCR), or by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer; multiple DNA froument single step assembly; construct: complementary overlands, simultaneous multi-DNA assembly; hormone: cyclokimes; enzymone; se, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Single step directional assembly of multiple DNA fragments - using complementary overhangs to produce joined DNA with no linker in between; for expressing e.g. hormones, cytokine(s), enzymes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14.3%: Score 17.2: DB 19; Length 35: 73.3%: Prod. No. 1.4e+04; atlive 0; Mismatches 8; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer designated 3595 from WO9838299 Example 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 35 BP: 17 A: 4 C: 9 G; 4 T: 1 U: 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GESH-) GESHER-ISRAEL ADVANCED BIOTECS 1996 LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               89 TTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3) TTACCTTCCTTAGCTCTGATTCTCATGTT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1: Page 38: 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAVS8173 standard; DNA: 35 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       58WO-IL00097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-FEB-1997; 971L-012033B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-NOV-1998 (First entry)
```

```
WPI; 1997-480355/44.
P-PSDB: AAW42245.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              selected compounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W09735194-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-SEP-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Forster AC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                               Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                      AAV03163;
                                                                                                                                                                                                                                                                                                                                               AAV03163/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The
      8×99999999999888
                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                             윱
                                                                                                                                                                                                                 ö
restriction cleavage or a similar method. AAV58169 to AAV58186 are PCR primers for use in the method of the invention, and are used in examples from the present invention. The method enables the clonding and expression of various proteins e.g. citrate synthases; polyketide synthases; or succinyl coarsyntheres. Cloned fragments preferably have at least 2 regulatory sequences, e.g. promoters; enhancers; terminators; ribosóme-binding sites. The method provides an efficient single-step directional assembly of at least 2 DNA fragments into a construct. The expression, in a simple and rapid procedure, and after joining there is no unwanted linker DNA between the joined fragments.
                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A method has been developed for the high efficiency assembling of multiple DNA fragments. The method comprises: (4) providing each fragment with at least one overhang that is: (a) capable of hydrogen bonding to a complementary sequence on a second fragment; and (b) at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Assembling DNA fragments - using complementary overhangs longer than 14 bp to obtain high rates of annealing
                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer; multiple DNA fragment assembly; complementary overhang; annealing; specific; spontaneous; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                 Cm A sense PCR primer designated 37102 from WO9838298 Example 3.
                                                                                                                                                                                                                 ö
                                                                                                                                                                                    Ouery Match 14.3%; Score 17.2; DB 19; Length 35; Best Local Similarity 73.3%; Pred. No. 1.4e+04; Matches 22; Conservative 0; Mismatches 8; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GESH-) GESHER-ISRAEL ADVANCED BIOTECS 1996 LTD.
                                                                                                                                                             Sequence 35 BP; 17 A; 4 C; 9 G; 5 T; 0 other;
                                                                                                                                                                                                                                          89 TIGGCTICCATAGCIGCIGAATIGCAGIT 118
                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3; Page 31; 53pp; English.
                                                                                                                                                                                                                                                                                                                                 AAV58143 standard; DNA; 37 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                971L-0120339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98MO-IL00096
                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *tag- a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -tag-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *tag~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *tag*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-481200/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   W09838298-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26 FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-FEB-1997,
                                                                                                                                                                                                                                                                                                                                                                                      25-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-SEP-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                             AAV58143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sharon G;
                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                misc RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       misc_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MISC.RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    misc_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              misc_RNA
                                                                                                                                                                                                                                                                                                           RESULT 21
                                                                                                                                                                                                                                                                                                                       888888888888888
                                                                                                                                                                                                                                                                 a
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            after panning with the Drenationer of interleukin-8 (IL-8). The sequence was obtained using the method of the invention. The method identifies compounds which interact with a target molecule, and comprises contacting a screening molecule with a variegated compound library, where the screening molecule with a variegated compound library, where the screening molecule with a variegated compound library, where the screening molecule is chiral. Compounds which have a desired interaction with the target molecule are selected, and the ability of their enactioner to interact with the target molecule is tested. Ligands for a target protein can be identified by combining a Drenationer of a target them selecting one or more compounds from the library which have a
least 15 bases long; and (ii) mixing the fragments under conditions that will promote joining. Also described are: (1) a DNA fragment with either an overhang of at least 15 bases, or an end portion suitable for conversion to such an overhang, and (2) a DNA construct prepared by the above method. ANV58119 to AAV58168 are PCR primers used in the method of the loverhang from 12 bases (prior art) to 15 results in a dramatic increase in annealing efficiency and specificity. This allows the ratio of reagents to be reduced from 1:100-300 to about 1:1, and permits multiple fragments (three or more) to simultaneously join efficient than prior art techniques, producing a higher yield in a brother than prior art techniques, producing a higher yield in a borter length of time.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              present sequence encodes an exemplary consensus sequence obtained
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteriophage peptide library:peptide epitope; therapeutic target: variegated compound library; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying compounds which interact with target molecules - using enantiomers of the target molecules and testing of enantiomers of
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                               Match 14.3%; Score 17.2; DB 19; Length 37; Local Similarity 86.4%; Pred. No. 1.4e+04; es 19; Conservative 0; Mismatches 3; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Biotinylated interleukin-8 consensus ligand sequence 2 DNA.
                                                                                                                                                                                                                                                                                                                                                     Sequence 37 BP; 15 A; 3 C; 10 G; 4 T; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    89 TTGGCTTCCATAGCTGCTGAAT 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32 Tracctrccrtaccrccrcaar 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure, Fig 5; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97WO-US04176.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9605-0622338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV03163 standard; DNA; 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-APR-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HARD ) HARVARD COLLEGE.
```

.. 0

0: Gaps

888888888

ò

```
Human; MEKK4 modulation: mitogen-activated protein kinase kinase 4; MFK1; MAPIK44; MAPIK44; AND Three kinase 1; MAPIKA4; Cytostatic: prophylaxis; immunological; hyperproliferative disorder; cancer; therapy; antisense; inflammatory; phosphorothioate backbone; ss.
  of the candidate mixture. The increased affinity nucleic acids are partitioned from the remainder of the candidate mixture and the isolated nucleic acids are amplified to yield a ligand-entiched mixture of nucleic acids. In which the nucleic acid ligands can be identified. The isolated ligands may be used as pharmaceuticals, diagnostic agents and in gene therapy. The ligands may be RNA or DNN molecutes.
                                                                                                                                                                                      Match 14.3%: Score 17.2; DB 16: Length 50: Local Similarity 58.8%: Pred: No. 1.5e+04: Res 25: Conservative 0: Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human MEKK4 antisense oligonucleotide, ISIS #123134.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag* c
/mod_base= OTHER
/note= "2'.methuxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mod_basc= OTHER
/note= "2'-methoxyethyl nucleotides
                                                                                                                                                                                                                                                                     7 CCATAGTGACCTCCTAACCCACACCTCATTATCCCCA 44
                                                                                                                                                                                                                                                                                            50 CCGTGCTACCCTACCAACCCACCCGCATTGAGCACA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note- "Phusphorothioate backbone"
                                                                                                                                              Seguence 50 BP: 10 A: 7 C: 22 G: 11 U: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag- a
/mod_base- OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mod_base- m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /•tag= d
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag= g
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag- h
/mod_base- ::5c
                                                                                                                                                                                                                                                                                                                                                                                                  7199/c
AAD37199 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-SEP-2001; 2001WO-US30549.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-SEP-2000; 2000US-0675436.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W0200227033-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 - AUG - 2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04 - APR - 2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAD37199;
                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                           RESULT 24
AAD37199/c
       8888888
                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
desired binding interaction with the D-target protein. The methods can be used for identifying agonists or antagonists of targets such as receptors, enzymes, DNA binding proteins or signal transduction proteins. The methods can provide a structurally selective approach in addition to scoring for interaction of functional groups. They provide a powerful selection method that allows for the production of ligands with the same diversity as peptides but with the greatly improved pharmacokinetic profiles needed for drug activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The sequences given in AAQ8982-91 represent nucleic acid ligands to asscribt endothelial growth factor (VECF). These ligands all contain the consensus sequence given in AAQ8992. These ligands were identified using the method of the invention. The method comprises confacting a candidate mixture with the target molecule (i.e. VECF) where the nucleic acids which have an increased affinity to the target relative to the candidate mixture can be partitioned from the remainder
                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acid; ligand; thrombin; elastase; theophylline; caffeine;
pharmaceutical; diagnosis; vascular endothelial growth factor;
gene therapy; RNA; DNA; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying nucleic acid ligands for target molecules - by artitioning increased affinity nucleic acids from a candidate mixt. and amplifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Biesecker G, Gold L, Janjic N, Jayasena S, Jenison RD:
Kirschenheuter GP, Pieken W, Polisky B, Smith D, Tasset D;
                                                                                                                                                                                                                               Query March 14.34: Score 17.2; DB 18; Length 45; Best Local Similarity 65.84; Pred: No. 1.56+04; Marches 25; Conservative 0; Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VEGF 2'-NH2-RNA nucleic acid ligand family 1, oligo 33B.
                                                                                                                                                                                                                                                                                                                6 GCCATAGTGACCCTCCTAACCCACACCTCATTATCCCC 43
                                                                                                                                                                                                                                                                                                                                          44 GCCCCAGCGCCCCAATAAGCCACATCCGAGCCCC 7
                                                                                                                                                                                      Sequence 45 BP; 4 A; 11 C: 22 G; B T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag- a /note- "2'-NH2-Adenine*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 37; Fig 34; 251pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ88988 stendard; RNA: 50 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         930S-0117991.
930S-0134028.
940S-0199507.
940S-0233012.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94WO-US10306.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-SEP-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (NEXA-) NEXAGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1995-123436/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-0CT-1993;
22-FEB-1994;
25-APR-1994;
28-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-SEP-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9507364-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ88988;
```

Wed

```
The sequences given in AA093258.342 represent a group of 2'-NH2 RNA ligands to basic fibroblast growth factor (bFF). These sequences ligands to basic fibroblast growth factor (bFF). These sequences represent the fragment in the consensus sequence given in AA093345. These ligands were isolated using systematic evolution of ligands by exponential enrichment (SELEX). The selection was conducted in PBS at 77 deg. C in the presence of heparin which competes with the RNA for binding to bFGF. The starting ligand pools contained 2'-NH2 modified RNA which has improved stability. After twelver rounds of selection, the RNA pools showed a definite departure from randomness, the affinity of the modified RNA pools was improved by 1-2 orders of magnitude. Individual members of the enriched pools were then cloned into pucils and sequences in Distinct families were identified based on overlapping regions of homology (see also AA09328-95). A number of sequences showed no obvious homology to any of the families come sequences showed no obvious homology to any of the families (see also AA09330-22). One family of ligands bound nitrocellulose (see also AA09330-22). These ligands are inhibitors of bFGF and are therefore useful in treating bFGF mediated conditions and in studying the structure and binding of bFGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ligand; basic fibroblast growth factor; bFGF; gene therapy; vascular; atheroscierosis; angloplasty; stability; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel nucleic acid ligands to basic fibroblast growth factor that are
                                                         Identification of ligands to basic fibroblast growth factor and thrombin - which can be modified for increased in vivo stability
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 14.2%; Score 17; DB 16; L Best Local Similarity 100.0%; Pred. No. 1.5e+04; Matches 17; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 30 BP; 6 A; 2 C; 16 G; 6 U; 0 other;
                                                                                                                          Claim 17; Page 85; 236pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2'NH2 RNA ligand to bFGFa #45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCCTCCTAACCCACACC 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9005-0536428.
9105-0714131.
9205-0973333.
9405-0195005.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Janjic N, Gold L, Tasset D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96us-0687421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF70683 standard; RNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-APR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (NEXS-) NEXSTAR PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-158583/16.
                 WPI; 1995-293073/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-NOV-1992;
10-FEB-1994;
28-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US5177557-BI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentifled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-JUN-1950;
10-JUN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF70683;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 26
AAF70683/c
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                   The present invention relates to antisense compounds, compositions and methods for medualing the expression of MEKK (also referred as mitogen-scrivated protein kinase 4: MAPJKK: MAP three kinase 1: MAPJERK kinase kinase 4: MAPJKK: MAP three kinase 1: MAPJERK kinase kinase 4: MAPKKE in Cells or tissues: They are also useful for treating an animal having a disease or condition associated with MEKK such as immunological, inflammatory, hyperproliferative disorder or cancer. Sequences of the invention are also useful for They are also useful in animal marks and as research reagents and kits. They are also useful in animals they may be research reagents and kits. They are also useful in animals the present sequence is an antisense oligonucleotide targetted to human MEKK DNA. This sequence is use useful in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                          New antisense compound targeted to nucleic acid encoding mitogen-activated protein kinase 4, useful for treating immunologic disorder, inflammatory disorder or cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Family 1; family 2; ligand; basic fibroblast growth factor; bFGF; systematic evolution of ligands by exponential enrichment; SELEX; heparin; selection; region of homology; inhibitor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14.2%; Score 17; DB 24; Length 20; 100.0%; Pred. No. 1.3e+04; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
1.30
/*tea
//mod_base c = 2'-NH2 cytosine
//mod_base u = 2'-NH2 uracil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Two member family bFGF 2'-NH2 RNA ligand 55A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 3 A; 5 C; 6 G; 6 T; 0 other;
                                        Gaarde WA, Monia BP, Wyatt JR;
                                                                                                                                                                                                                  Example 15; Page 93; 132pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120 ACTCCAGAGGGATTCAG 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gold L, Janjic N, Tasset D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       94US-0219012.
94US-0195005.
90US-0536428.
91US-0714131.
93US-0061691.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    95WO-0S01458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           44 ACTCCAGAGGGATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA093302 standard: RNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (NEXS-) NEXSTAR PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match
Best Local Similarity 100.
(ISIS-) ISIS PHARM INC
                                                                                WPI: 2002-416486/44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-FEB-1994;
11-JUN-1990;
10-JUN-1991;
22-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W09521853-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA093302;
                                        Ward DT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 25
```

8

ö

Gaps

ò

```
The invention relates to a human caudal action protein 17.38, the encoding polynuclectide and a method for preparing the polypeptide by DNA recombination techniques. The polypeptide is used in treating diseases such as protein metabolism disorder. The current sequence represents a human caudal action protein 17.38 related primer sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human caudal action protein 17.38 and encoding polynucleotide, useful for treating protein metabolism disorder
                                                                                                                                                                                                                                                         Ruman; caudal action protein 17.38; protein metabolism disorder; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRO358; Toll; homologue; human; adaptive immunity; septic shock; pathogen pattern recognition receptor; hybridisation; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 14.2%; Score 17; DB 24; Length 33; Best Local Similarity 80.0%; Pred. No. 1.6e-04; Matches 20; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                               Human caudal action protein 17.38 related primer 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human Toll protein PRC358 hybridisation probe 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; Page 18 (disclosure): 33pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 33 BP: 7 A: 9 C: 9 G: 8 T: 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (BODE-) BODE GENE DEV CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46 TCCASAGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 TCCTCAGTGATCCAGGTGTTCCAGC 31
                                                                                     ABN86086 standard; DNA; 33 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX58315 standard; DNA; 48 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-AUG-2000; 2000CN-0119801.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-AUG-2000; 2000CN-0119801
                                                                                                                                                                       02-0CT-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-AUG-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-436428/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mao Y, Xie Y;
                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
Homo saplens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           W09920756-A2.
                                                                                                                                                                                                                                                                                                                                                                    CN1340534-A.
                                                                                                                                                                                                                                                                                                                                                                                                            20-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX58315;
                                                                                                                               ABN86086;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               đ
                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents a PCR primer of the invention. The primer is used for amphilitotion of the E. coll vecrotxin (TY) gene. The oligomucleotide is useful for detection of inactivated VT gene by transfer of a foreign DNA fragment. Simple, rapid and specific amplification of VT gene from environmental factors is achieved using the oligomucleotide of the invention.
                                                                                                     The present invention relates to a purified and isolated non-naturally occurring DNA ligands to basic (libroblast growth factor (DEG).

The ligands are useful as part of gene therapy treatments and for diagnosing pathogenesis of vascular diseases including fulfitation and progression of atherosciences, acte coronary syndromes, veln graft disease and restenosis following coronary angioplasty. The ligands have improved stability in vivo
useful as inhibitors of basic fibroblast growth factors and 2'-amino modified RNA ligands, exhibit increased in vivo stability .
                                                                                                                                                                                                                                                                                                                                                                      0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  An oligonucleotide for amplification of verotoxin - useful in the detection of inactivated verotoxin gene by transfer of a foreign DNA
                                                                                                                                                                                                                                                                                                                 Query Match 14.2%; Score 17; DB 22; Length 30; Best Local Similarity 100.0%; Pred. No. 1.5e+04; Matches 17; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ch 14.2%; Score 17; DB 20; Length 32; I Similarity 80.0%; Pred. No. 1.5e+04; 20; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Verotoxin; VT1; VT2; detection; PCR primer; ss.
                                                                                                                                                                                                                                                                               Sequence 30 BP; 6 A; 2 C; 16 G; 6 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Seguence 32 BP; 10 A; 9 C; 6 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           95 TCCATAGCTGCTGAATTGCAGTTTA 119
                                                             Claim 2; Column 49-50; 153pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26 TCCGGATTTGCTGAAGTGCAGTTTA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 12; Page 10; 10pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                            16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CCTCCTAACCCACAC 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ27695 standard; DNA; 32 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer for Verotoxin gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98JP-0047677.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98JP-0047677.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-DEC-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-603716/52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 20; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (TOYM ) TOYOBO RK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
Escherichia coll.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JP11243996-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-SEP-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ27695;
```

용

ŝ

ö

Gaps

```
The invention provides a novel transgenic rat that comprises cells which comprise at least one copy of a lentivital (LV) nucleic acid. The transgenic rats can be used as models (LV) (e.g. HIV infection and development of disease (e.g. AIDS). The LVs also include primate LVs eq. HIV IHHV2, similar immunodeficiency vitus (SIV) from chimpansee (SIVcpz), Sooty mangebey (SIVsmm) African Green Monkey (SIVsmm), formed monkey (SIVsmm), African Green Monkey (SIVsmm), African Green Monkey (SIVsmm), and Macaque (SIVmac), felline LV e.g. immunodeficiency vitus (RIV), vovine LVs, e.g. bovine common and the vitus (RIV), vovine LVS, e.g. bovine Caprine arthritis encephalitis virus (CAEV), and equine LVs e.g. equine finections anemia virus (EIV), The enimals can be used for indentifying agents for treating or preventing a disease or condition associated with LV. The present sequence represents a probe hybridizing to a human CD4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New nucleic acid segment comprising one of the 10 - 100 bp sequences given in the specification (sequences of a polymorphic site), or the complement of the segment and a method of analysing a nucleic acid comprising determining the base occupying the polymorphic site of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
           New transgenic rats containing lentiviral nucleic acid, used for developing products for treating or preventing lentivirus infection, particularly MIV infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ss; polymorphic site; nucleic acid analysis; diagnosis; monitoring; cancer; inflammation; heart disease: CNS disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                               14.0%; Score 16.8; DB 20; Length 30; 75.0%; Pred. No. 1.8e+04; tive 0; Mismatches 7; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid segments containing polymorphic sites, or complements and methods of detecting a nucleic acid · for guse including diagnosis and monitoring of diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleotide fragment containing polymorphic site, WI-12345.
                                                                                                                                                                                                                                                                                                                                                                                  Sequence 30 BP; 5 A; 4 C; 16 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24 ACCCACACCTCATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 ACCCACACGCCTTCTCCCGCTTCGAGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Berno A, Chee M, Fan J, Lipshutz RJ
                                                                                  Example 5; Page 38; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 28; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       58WO-US04571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97US-0042125
97US-0813159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAV67934 standard; DNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-DEC-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 14.0°
Best Local Similarity 75.0°
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (AFFY-) AFFYMETRIX INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1998-495419/42.
                                                                                                                                                                                                                                                                                                                                                transgene fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W09838846-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-MAR-1997;
07-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV67934;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 31
AAV67934/c
 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Transgenic rat; lentiviral; LV; HIV infection: AIDS; primate: HIV-1; HIV-2; similan immunodeficiency virus; SIV; feline immunodeficiency virus; FIV; bovine immunodeficiency virus; BIV; CECV: EIAV; CV4 gene; probe; Caprine arthritis encephalitis virus; equine infectious anemia virus; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                       This oligonucleotide is one of two probes (see also AAXS8314) used to examine the expression pattern of PRO358 (see AAXS886), a novel human, homologue of Drosophila Toll protein that acts as a pathogen pattern recognition receptor. The probe is based on full-length DNA7151 (see AAXS829). Expression was found in gut-associated lymphoid itssue and developing splenic white pulp in the foetus. Low level expression was seen in the pALS region of normal adult splene. All other tissues were negative. Isolated nucleic acids encoding PRO357 polypeptides, a process for producing PRO358 polypeptides and an antibody which specifically binds to a PRO358 polypeptide are claimed. The antibody is used in a claimed method for the treatment of septic shock.
                                                                                                                                                                                                                                            New human Toll-like receptors that recognize microbial structures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Match 14.2%; Score 17; DB 20; Length 48 Local Similarity 69.7%; Pred. No. 1.8e+04; es | 23; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                       Goddard A, Godowski PJ, Gurney AL, Mark MR, Yang R:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 48 BP; 12 A; 7 C; 11 G; 18 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human CD4 transgene hybridizing internal probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41 CCCACTCCAGAGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bryant JL, Reid WC, Davis HG, Flamand L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYMA-) UNIV MARYLAND CONSTITUENT INST
                                                                                                                                                                                                                                                                           Example 12; Page 55; 79pp; English.
                             98US-0105413.
97US-0062250.
97US-0065311.
98US-0083322.
98US-0090863.
 98WO-US21141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US07E21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0058113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA223312 standard; DNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JAN-2000 (first entry)
                                                                                                                                       (GETH ) GENENTECH INC.
                                                                                                                                                                                                        WPI: 1999-302739/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI: 1999-620240/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9952349-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-APR-1998;
07-0CT-1998;
                                                                                    28-APR-1998;
26-JUN-1998;
                                                                    13-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-0CT-1999.
                                   26-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA223112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 30
AA223112/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tches
ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

88888888

ŝ

```
SQ Sequence 31 8P: 10 A: 9 C: 7 G: 5 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAMES OF COLORS OF STREET STRE
                                                                                                                                                                                                                                                                                                                         Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents a cloning primer used in an example from the present invention which describes proteins from Streptococcus preperococcus prepared in the present invention which describes proteins from Streptococcus preumoniae proteins can be useful in vaccines for inducing protective antibodies against Streptococcus preumoniae. For treatment or prevention of infection e.g. pneumonia. Oiltis media or meningitis. Probes based on the nucleic acids are used to detect Streptococcus infection (by usual hybridisation or amplification methods), also for isolating Streptococcus agenes or their allelic variants. The proteins can be used shill the proteins or mediated immunossasy, especially for diagnosing or monitoring infections. Antibodies which the proteins and for passive immunisation (optionally coupled to coxin). Vaccines are administered, e.g. by injection, orally or through the stand of the present in the present invention are given in AAV27437 to AAV27562 and AAV39870 to AAV39869.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
polymorphic fragment sequences are disclosed in the specification. The information obtained from nucleic acid analysis by the method described is useful in disquosis or monitoring of diseases like cancer. Inframmation, hear disease, CNS diseases, and susceptibility to infection by an encropranism. In addition, the nucleic acid segments are useful in manufacturing medication in the treatment of prophylaxis of diseases, and also the use of the DNA segments as pharmaceutical.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Streptococcus pneumonlae; antigen; vaccine; infection; diagnosis; detection; pneumonia; otitis media; meningitis; cloning primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nucleic acid encoding antiquic peptide(s) from Streptococcus ammoniae - or their epitope -containing fragments, useful in protective or therapeutic vaccines, and for diagnosis
                                                                                                                                                                                                                                                                                                                                                                                          W Match 14.0%; Score 16.8; DB 19; Length 31; Local Similarity 70.0%; Pred. No. 1.8e+04; hes 21; Conservative 1; Mismatches 8; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Streptococcus pneumonlae ORF cloning primer SEQ ID NO:323.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Choi GH, Hromockyj A, Johnson LS, Kunsch CA;
                                                                                                                                                                                                                                                                                                                         Sequence 31 BP; 11 A; 9 C; 7 G; 3 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   48 CAGAGGGATTCAGGGGTTCCAGCGTTCCTG 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30 CAGAGGGGTTCAGGKTTCCTCTTTTTCCTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 107; 118pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      533/c
AAV27533 standard; DNA; 31 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (HUMA-) HUMAN GENOME SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9605-0029960.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97WO-US19422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-0CT-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Streptococcus pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MPI; 1998-272224/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-0CT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-oct-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9818930-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07 - MAY - 1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV27533;
                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 32
```

```
ö
                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AB084792 to AB084904 represents nucleic acids which encode the Streptococcus pneumonies entigens given in ABP54557 to AB954669.
The S. pneumonies entigens have antibacterial activity and can be used in vaccines. The S. pneumoniae antigens can also be used to prevent or attendate a Streptococcus infection in an animal. The polynuclectides encoding the S. pneumoniae antigens can be used to detect Streptococcus nucleic acids. AB084905 to AB085130 represent primars used in the cloning of S. pneumoniae ORFS (open reading frames) which are used in an example from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kunsch CA. Barash SC. Dillon PJ. Dougherty B. Fannon MR:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps.
                                                                 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New Streptococcus pneumoniae antigens, useful for detecting
Streptococcus and for preventing or attenuating disease caused by
Streptococcus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Streptococcus pneumoniae; epitope; vaccine; antigenic protein; antibacterial; Streptococcal infection; detection; primer; ss.
Ouery Match 14.0%; Score 16.8; DB 19; Length 31; Best Local Similarity 75.0%; Pred. No. 1.8e-04; Natches 21; Conservative 0; Mismatches 7; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
14.0%: Score 16.8: DB 24; Length 31;
Best Local Similarity 75.0%; Pred. No. 186-04;
Matches 21; Conservative 0: Mismatches 7; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Streptococcus pneumoniae ORF cloning primer SEQ ID NO:323.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31 BP; 10 A; 9 C: 7 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 71 GTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                        71 GTTCCICAAAATGAICGAITGGCTTCCA 98
                                                                                                                                                         Example 1: Page 64: 70pp: English.
                                                                                                                                                                                                                                                                                                                                 ABO85001 standard; DNA; 31 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-JAN-2001; 2001US-0765272.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            97US-0961083.
                                                                                                                                                                                                                                                                                                                                                                                                                                               04-SEP-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Streptococcus pneumonlae.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (DILL/) DILLON P J.
(DOUG/) DOUGHERTY B.
(FANN/) FANNON M R.
(ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CHOI/) CHOI G H.
(KUNS/) KUNSCH C A.
(BARA/) BARASH S C.
(DILL/) DILLON P J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-479261/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2002061545-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-0CT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-MAY-2002.
                                                                                                                                                                                                                                                                                                                                                                                        AB085001:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rosen CA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Choi GH,
                                                                                                                                                                                                                                                                           RESULT 33
ABO85001/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
```

Page 18

AAZ66282;

RESULT 34

AAZ66282 ID AAZ6

```
AA265654 to AA269578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AA269579 to AA277440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and differential efficacious responses to and side characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel biallelic markers used to construct a high density disequilibrium map of the human genome {}^{\bullet}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treatment.
N.B. The SEQ ID Nos 2852, 2913, 2974, 3015, 3096, 3157, 3227, 3297 and 3.67, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                          Human genome; biallelic marker; high density disequilibrium map: genomic map haplotype; phenotype; oblymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; diagnosis; single nucleotide polymorphism; SNP; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                             /standard_name= "single nucleotide polymorphism"
                                                                                                                                                             Human map-related biallelic marker SEQ ID NO: 2007.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
replace(24,G)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1: Page 658; 2745pp; English.
                          BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14.0%;
66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0082614
98US-0109732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99WO-IB00822
                          AAZ67660 standard; DNA: 47
                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 66.74
Matches 24: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cohen D, Blumenteld M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI: 2000-013257/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9954500-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-APR-1998:
23-NOV-1998;
                                                                                                                   10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                     variation
                                                                       AAZ67660;
AA267660
ID AA26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 36
                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA2656st to AA269578 represent human biallelic markers from the present luneation, which contain a polymorphic base at position 24 of their nucleotide sequences. AA26959 to AA2740 represent amplification primers for the biallelic markers. The biallelic markers of the primers for the biallelic markers. The biallelic markers of the primers for the biallelic markers and biallelic markers and the used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of characterisation of the differential efficacious responses to and side characterisation of the differential efficacious responses to and side
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel biallelic markers used to construct a high density disequilibrium map of the human genome \dot{z}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               treatment.
N.B. The SEO 1D NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                                            Humanigenome; biallelic marker; high density disequilibrium map;
genomic map; heplotype; phenotype; polymorphic base; genotyping;
haplotyping; hybridisation; identification; characterisation;
diaquogis; single nucleotide polymorphism; SNP; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Match 14.0%; Score 16.8; DB 21; Length 47; Local Similarity 61.4%; Pred. No. 2.1e+04; es 27; Conservative 0; Mismatches 17; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46 TCCAGAGGGATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 TACAGAAGAATTCATGTGGTCATGAGAGCGAGGACATGGCCGAT 46
                                                                                                                                                                                                                                       Human, map-related biallelic marker SEQ ID NO:629.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 47 BP; 15 A; 9 C; 14 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cohen D, Blumenfeld M, Chumakov 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
replace(24,C)
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 364; 2745pp; English
                                                                                      AAZ66282 standard; DNA; 47 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-IB00822.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0082614
98US-0109732
                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-013267/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GEST!) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                        10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                   sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9954500-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-OCT-1999.
```

variation

Ношо

```
ö
                                                             Gaps
                                                           ö
                                Length 47;
                                                           Indels
                         Score 16.8; DB 21;
Pred. No. 2.1e+04;
0; Mismatches 12;
                                                                                          20 CCTAACCCACACTCATTATCCCCACTCCAGAGGGA 55
                                                                                                        CATCACAAATGCCTCATTATCCACTCCACAGAAGCA 37
Sequence 47 BP; 15 A; 16 C; 7 G; 9 T; 0 other;
                                                                                                                                                                                                      BP
                                                                                                                                                                                                    AAT33570 standard; DNA; 40
                                                                                                                                                                                     AAT33570/c
ID AAT33
XX
```

Ouery Match

Ś

RESULT 35

AAT33570:

Synthetic.

Dixit VM;

```
PCR primers AAV05465-66 were used to amplify nucleic acids encoding craw. The specification describes a novel method of controlling cell functions controlled by the tumour necrosis factor receptor (TMF-R) pathway containing U1-70. The method comprises introducing a nucleic acid modecule encoding Craw into a cell, and culturing the cell under sultable conditions for transcription and translation of the Craw nucleic acid. Method for preventing and inhibiting apoptosis path, and screening a candidate chemical netlated to the apoptosis path, and screening a candidate chemical netlated to the apoptosis path, and screening a candidate chemical netlated can be used to olderily substances which modulate apoptosis in cells controlled by the TMF-R pathway.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Match 13.8%; Score 16.6; DB 19; Length 40; Local Smilarity 64.1%; Pred. No. 2.3e-04.

Decal Smilarity conservative 0; Hismatches 14; Indels 0; Gaps nes 75; Conservative 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Controlling apoptosis by inhibiting activation of the U1-70 pathway - by introduction of nucleic acid encoding protein with CrmA blological activity into the cell
                                                                                                                                                                        Controlling apoptosis by inhibiting activation of the U1-70 pathway - by introduction of nucleic acid encoding protein with CrmA biological activity into the cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primers AAV05467-70 represent PCR primers of the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CrmA; tumour necrosis factor receptor; TMP-R; U1-70; inhibition; apoptosis; activation; U1-70 path; apoptosis path; identification; modulation; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 40 BP; 11 A; 6 C; 10 G; 13 T; 0 other;
                                                                                                                                                                                                                                                                   Disclosure: Page 24: 48pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure: Page 31; 48pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer of the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV05469 standard; DNA; 40 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96US-0591605.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            57JP-0012932.
27-JAN-1997: 97JP-0012932
                                            96US-0591605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-JUL-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UNMI ) UNIV MICHIGAN.
                                                                                     (UNMI ) UNIV MICHIGAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-056551/06.
                                                                                                                               WPI; 1998-056551/06.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JP09299077-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-JAN-1557;
                                              09-FEB-1996:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-NOV-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV05469;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV05469,
     õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer CrnA/3'/Xbal (AAT33570), also designated primer B, is complementary to the last 26 nuclectuleds of the CrnA coding region (see also AAT33569) and also includes Xbal and Xhol sites. It was used with primer CrnA/5'/Rl (AAT33569) to amplify the CrnA gene, and with primer Ml (AAT33573) to generate a mutant CrnA gene encoding Till R CrnA protein. CrnA is an inhibitor of tumour necrosis factor and Fas-induced cell death: the point mutation abolishes this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New nucleic acid encoding Yama protein or CrmA mutant - useful for modularing apoptosis, maintaining T cell viability in AIDS patients and for drug screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CrmA: tumour necrosis factor receptor; TMF-R: U1-70; inhibition; apoptosis, activation; U1-70 path; apoptosis path; identification: modulation; PG primer: Ss.
                                                                                                                                 vama: CraA; apoptosis: Fas receptor: T-lymphocyte; AlDS; HIV;
human immunodefictancy vitus; gene therapy; protease inhibitor
serpin; compox vitus; polymerase chain reaction; PCR: primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3" PCR primer for amplification of nucleic acid encoding CrmA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - Match
Local Similarity 64.1%; Proci No. 23e+04.
- Local Similarity 64.1%; Proci No. 23e+04.
- Res 25: Conservative 0; Mismatches 14; Indels 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 40 BP; 11 A; 6 C; 10 G; 13 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 65; 118pp; English.
                                                                                        CrmA gene primer CrmA/3'/XbaI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAV05466 standard; DNA; 40 BP.
                                                                                                                                                                                                                                                                                                                                                                                                           950S-0457731.
950S-0389812.
                                                                                                                                                                                                                                                                                                                                                                 96WO-US01882.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-JUL-1998 (first entry)
                                              06-DEC-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UNNI ) UNIV MICHIGAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1996-393402/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JP09299077-A.
                                                                                                                                                                                                                                                                      W09625501-A2.
                                                                                                                                                                                                                                                                                                                                                              09-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                     01-JUN-1995;
13-FEB-1995;
                                                                                                                                                                                                                                                                                                                  22-AUG-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-NOV-1997.
```

activity.

Query Match Best Local S

g

ŝ

Synthetic.

AAV05466;

for the identification of the targets for the development of

```
ö
The specification describes a novel method of controlling cell functions controlled by the tumour necrosis factor receptor (TNF'R) pathway controlled by the tumour necrosis factor receptor (TNF'R) pathway montaining U1-70. The method comprises introducing a nucleic acid molecule encoding CrmA into a cell, and culturing the cell under suitable conditions for transcription and translation of the CrmA nucleic acid method for preventing and inhibiting apoptosis by inhibiting activation of the U1-70 path, identifying the chemical related to the apoptosis path, and screening a candidate chemical having biological function in the apoptosis path are also described. The methods can be used to identify substances which modulate apoptosis in cells controlled by the TNF-R pathway.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA265654 to AA269578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AA27440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human genome: biallelic marker; high density disequilibrium map: genomic map: haplotype; phenotype; polymorphic base: genotyping: haplotyping; hypidisticn; identification; characterisation; diagnosts; single nucleotide polymorphism: SNP; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag~ a
/standard_name~ "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 64.1%; Pred. No. 2.3e+04;
Matches | 25; Conservative 0; Mismatches 14; Indels C
                                                                                                                                                                                                                                                                                                                                      14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                             Human map-related biallelic marker SEO ID NO:1480.
                                                                                                                                                                                                                             Sequence 40 BP; 11 A; 6 C; 10 G; 13 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chumakov I:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 546; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ67,133 standard; DNA; 47 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  replace(24,G)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-IB00822.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0082614
98US-0109732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              D, Blumenfeld M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-013267/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GEST) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          W09954500-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-OCT-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA267133;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel
                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 39 |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cohen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA267133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                       a
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a set of novel map-related biallelic markers, preferably located on obesity disorder-associated chromosomal regions on chromosomes 3.10 and 19. The markers are useful for genotyping or association the frequency of an allele in a population, for detecting an association between a genotype or haplotype and a phenotype. e.g. a disease involving drug responses, obesity or disorders related to obesity, such as hyperuricaemia, digestive pathology, hepatic function disorders, cancer, cardiovascular disease, hypertension, hyperilpidemia, insulin disorders, atheromatous disease, hypertension, hyperilpidemia, markers are useful for detecting a statistical correlation between a biallelic marker allele and a phenotype and/or between a biallelic marker phenotype. This sequence represents a human obesity-associated biallelic marker located on chromosome 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; obešity associated-biallelic marker; chromosome 10; obesity: ds.; drug response; hyperturicaemia; digestive pathology; hypertension; cancer: hepatic function disorder; cardiovascular disease; hyperlipidaemia; insulin disorder; atheromatous disease; cardiac insufficiency.
be useful for the identification of the targets for the grevious pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficatious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Set of novel map-related biallelic markers, preferably located on obesity disorder-associated chromosomal regions on chromosomes 3, 10 and 19, useful, for e.g. detecting statistical correlations between marker allele and a phenotype
                                                                          treatment.
N.B. The SEO ID NOS 2852, 2913, 2974, 3035, 3086, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human obesity-associated chromosome 10 biallelic marker #105.
                                                                                                                                                                                                                  Length 47;
                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                 2
                                                                                                                                                                                                                                                                                                                     7 TGCACTTTCTGCCCAAGACCTCTGTATTCACATACAGA 45
                                                                                                                                                                                                              13.8%; Score 16.6; DB 21;
64.1%; Pred. No. 2.5e+04;
Live 0; Mismatches 14;
                                                                                                                                                                                                                                                                                                 13 TGACCCTCCTAACCCACACCTCATTATCCCCACTCCAGA
                                                                                                                                                                          Sequence 47 BP; 13 A; 15 C; 6 G; 13 T; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 222; 311pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                     ABK40897 standard; DNA; 47 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-JUN-2001; 2001WO-1B01477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-JUL-2000; 2000US-219704P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-MAY-2002 (first entry)
                                                                                                                                                                                                                                       Local Similarity 64.19
es 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI: 2002-155043/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200206525-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 - JAN - 2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABK40897:
                                                                                                                                                                                                                     Ouery Match
                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 40
                                                                                                                                                                                                                                                                                                                                                                                                                        ABK40897
                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
```

Sequence 47 BP; 17 A; 9 C; 9 G; 11 T; 1 other;

AAX91514 standard; DNA; 33 BP.

Bovine interferon-alpha gene amplifying primer alfNssfor.

28-SEP-1999 (first entry)

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes a method for the synthesis of blotin in Especifichia coll. This method involves the expression of a blotin gene or its functional variants, analogues and derivatives, in a prokaryote or eukaryote that is able to produce biotin. The cells are grown and the biotin produced either used directly, after separation of the blomass, or after purification. Constructs containing this nucleic acid or protein or their variants erc., can be coupled to one or more regulators for increasing agene and/or protein expression, and/or having lits natural regulators switched off. Expression of this biotin protein blotin, thus increasing vield and making possible an industrially useful elementative method for blotin production.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Gaps
                                                                             0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Biotin; synthesis; dethiobiotin; yield increase; industry; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Improved synthesis of blotin by expressing the bioSl or bioS2 sequence in blotin-producing cells - and related gene constructs, provides increased conversion of dethioblotin in eukaryotic or prokaryotic hosts
                      Query Match 13.8%; Score 16.6; DB 24; Length 47; Best Local Similarity 61.0%; Pred. No. 2.5e-04; Matches 15; Conservative 1; Mismatches 15; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 13.7%; Score 16.4; 08.20; Length 30; 1.51milarity 76.9; Prefal No. 2.5evd; 2.5evd; 0.5.00; Conservative 0; Mismatches 6; Indels (
                                                                                                                        63 GTTCCAGGGTTCCTGAAATGATCGATGCCTTCCATAGCT 103
[11] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 30 BP; 5 A; 13 C; 8 G; 4 ?; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    49 AGAGGGATTCAGGGGTTCCAGCGTTC 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 AGCGGGACTCTGGGGTTCGAGAGCTC 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   E. coli biotin DNA primer Kan-R,1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 7; 48pp; German.
                                                                                                                                                                                                                                                                                                          AAX02789 standard; DNA; 30 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97DE-1031274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97DE-1031274.
                                                                                                                                                                                                                                                                                                                                                                                                            14-MAY-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hauer B, Schroeder H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-107030/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Escherichia coll.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fermentation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BADI ) BASF AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DE19731274-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-JAN-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Si
Watches 20;
                                                                                                                                                                                                                                                                                                                                                           AAX02789;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 42
AAX91514
```

```
The invention provides bovine herpes virus-2 (BHV-2) based vectors that comprise at least one cytoChire-encoding DNA sequence. The expression of cytoChines in mammals can up-regulate immune responses to the immunogens. The cytoKhine is solected from interleakins (IL), colony stimulating decreases of considerating and tumour necrosis factors (TRF), interfectors (IRN) and tumour necrosis factors (TRF). The BNV-2 based vector or recombinant virus can be used as vectors. They can be used for preventing or treating a mucosal disease in a subject, e.g. rumnants, cattle, sheep, yoats, doys, cats, horses, or man, particularly mastifis in cava or breast cancers in humans. They can also be used for preventing a stress induced disease.
Bovine herpos virus-2; BHV-2; cytokine: immune response; immunogen: IL; interleukin... colony stimulating factor. 78; interfectors; if NN: TNF: timour necrosis factor; recombinant virus: vaccine; mucosal disease; mastilis; breast cancer; stress-induced disease; PCR primer: ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cytochrome P450 monooxygenase: BM-3; electron donor system; bioreactor; electron transfer; hydroxylatable fatty acid; fatty acid-monooxygenase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  / Match 13.74. Score 16.4; DB 20; Length 33; Local Similarity 76.94; Pred No. 2.6e+04. Local Similarity 76.94; Pred No. 2.6e+04. Set 10dels 6; Indels 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 33 BP; 9 A; 13 C; 6 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  B. megaterium BH-3 associated primer Sl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 TCGATGCCATAGTGACCCTCCTAACC 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2: Page 34; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New bovine herpes virus-2 vectors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF26264 standard; DNA; 38 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                   97GB-0020633
                                                                                                                                                                                                                                                                                                                                                            98MO-GB02927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-MAY-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bradley AJ, Duffas WPH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (UYBR-) UNIV BRISTOL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-255101/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bacillus megaterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W0200107573-A1.
                                                                                                                                                                                                                                                                                                                                                        29-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                   29-SEP-1997;
                                                                                                                                                                                                                                      WO9916892-A1.
                                                                                                                                                                                                                                                                                                 08-APR-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer; ss.
                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF26264;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
```

01-FEB-2001.

(BADI)

```
This sequence represents a cathepsin G-inhibiting aptamer derived from the consensus sequence CGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[1-7]GGN[8-14]GGN[8-14]GGN[8-14]GGN[8-14]GGN[8-14]GGN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14]GN[8-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cathepsin G-inhibiting aptamer(s) - useful to treat, e.g. inflammatory and pro-coagulatory conditions, especially asthma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13.74: Score 16.4; DB 18; Length 42; 50.0%; Pred. No. 2.8e+04; ative 7; Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31 CCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 42 BP: 6 A; 7 C; 16 G; 4 T; 9 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CRIN ) CRINOS IND FARMACOBIOLOGICA SPA
            /note "G-pair"
5.6
/*tag b
                                                                                                      b
G-pair
                                                                                                                                                                                                                                                                                                                                                           e "G-pair"
                                                                                                                                                                                             c
"G-pair"
                                                                                                                                                                                                                                                                                                           "G-pair"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; Page 3; 10pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA60979 standard; DNA; 44 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96EP-0118661.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95DE-4043750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 50.0
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                       /note-
41..42
/*tag-
/note-
1..2
/*tag=
                                                                                                                                                                    24 25
/*tag=
/note=
                                                                                                                                                                                                                                                                              /*tag*
                                                                                                                                          /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bracht F, Schroer K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI: 1997-312458/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BRAC/) BRACHT F. (SCHR/) SCHROER K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-NOV-1995;
                                                                                   misc_feature
                                                                                                                                                                       misc_feature
                                                                                                                                                                                                                                                                                                                                        misc_feature
   misc_feature
                                                                                                                                                                                                                                                    misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                  EP775745-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAA60979;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA60979
ID AAA6
XX
AC AAA6
   This invention describes a novel electron donor system (MI) that
transfers electrons to an enzyme with redox properties comprising
transfers electrons to an enzyme with redox properties comprising
the electron transfer. The invention also describes (1) transferring (M2)
the electron transfer. The invention also describes (1) transferring (M2)

cygen, to a hydrocatbon containing hydrogen donor molecule, where the
pydrogen donor molecule is in a reaction medium comprising the oxygen
transferring enzyme and (MI) in the presence of oxygen and incubating
the cransferring enzyme and (MI) in the presence of oxygen and incubating
under suitable reaction conditions; (2) the enzymatic production (M3) of
terannally or subterminally hydroxylated (position omega 4)

creminally or subterminally hydroxylated (position omega 4)

creminally or subterminally hydroxylated patch or fatty
cacid derivative in the presence of (M1) and cytochrome P450

monooxygenase: and (11) isolating the hydroxylated fatty acids
becaribed in (2): and (4) selecting (M4) fatty acid monooxygenases

comprising: (1) contacting the analyte with a omega hydroxylatable fatty
cacid or a derivative comprising a terminal chromophore or fluorescent
signal, The Invention is useful for the production of omega hydroxylated
catty acids and the detection of fatty acid monooxygenases. The
signal, The Invention selection donor system of enzymes with
credox properties that is cheaper and more efficient, where the enzyme
comprises cytochrome 450.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                           Novel electron donor system useful for the production of owega-hydroxylated fatty acids comprises an inorganic electron sink and a mediafor which enables the electron transfer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polymorphonuclear leucocyte; tissuc damage; inflammation; platelet; eneutrophilic granulocyte; asthma; bronchitis; Alzheimer's disease; coaquilopathy; thrombotic disease; arterial vasopathy; venous vasopathy; myocardial infarction; se.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cathepsin-G; aptamer; serine protease; consensus; degranulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Match 13.7%; Score 16.4; DB 22; Length 38; Local Similarity 67.6%; Pred. No. 2.7e+04; Nes 23; Conservative 0; Mismatches 11; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 CATAGIGACCCTCCTAACCCACACCTCATTAICC 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 38 BP; 6 A; 16 C; 8 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                    Schwaneberg U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cathepsin G-inhibiting aptamer #9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2; Page 76; 94pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT77149/C!
ID AAT77149 standard; DNA; 42 BP.
                                                                                   27-JUL-2000; 2000WO-EP07251.
                                                                                                                                       27-JUL-1999; 99DE-1035115
10-MAR-2000; 2000DE-1011723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-FEB-1998 (first entry)
                                                                                                                                                                                                                                                                              Hauer B, Schmid RD,
                                                                                                                                                                                                                                                                                                                                        WPI: 2001-159709/16
                                                                                                                                                                                                                             BASF AG.
```

ö

Caps ö

Synthetic.

AAT77149;

RESULT 44

Query Match

```
AAZ65654 to AAZ69578 represent human bialielic markers from the present invention. Which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the bialielic markers. The bialielic markers of the invention have a variety of uses; they can be used for high density mapping of the invention favor genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and mericods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents metric methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treatment.
N.B. The SEQ ID NOS 2862, 2913, 2974, 3035, 3096, 3157, 3227, 3297
and 3167, are not actually given a sequence in the Sequence Listing from the present invention.
        /*tag- a
/standard_name= "single nuclectide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human cytokine signal transfer arrestin IV; chromosome 1p21.3; cytokine inductble SH2-containing protein family; CIS family; SOCS-4 homologue; suppressor of cytokine signalling; recombinant production; PCR primer; SS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
13.7%: Score 16.4; DB 21; Length 47;
Best Local Similarity 81.9%; Preci No. 2-96-04;
Matches 26: Conservative 0: Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human cytokine signal transfer arrestin IV PCR primer #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCTGAAATGAT 85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 ACCCCACAGAATTCTGGGATTCAATGAGCTATAAAGATGGT 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 47 BP: 16 A: 10 C: 10 G: 11 T: 0 other:
                                                                                                                                                                                                                                                                                                                                     Cohen D, Blumenfeld M, Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 709; 2745pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA97472 standard; DNA; 29 HP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98CN-0125687.
                                                                                                                                                                                                                  98US-0082614.
                                                                                                                                                                     99WO-IR00822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JAN-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           map of the himan genome
  /•tag-
                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-013267/01.
                                                                                                                                                                                                                                                                                            (GEST ) CENSET.
                                                                         W09954500-A2
                                                                                                                                                                  21-APR-1999;
                                                                                                                                                                                                                  21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-DEC-1998;
                                                                                                                            28 OCT - 1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CN1257922-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-JUN-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA97472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 47
  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a fusion protein, designated Lidamycin, composed of Lida-protein (LDP) and Lida-chromophore (LDC), which acts as an anticancer antiblocit and single-chain antibody. LDP and LDC are joined via non-covalent bonds and can be splitted and recombined. A single-chain antibody scyr can specifically join with ly-type collagense and can suppress its activity and in order to increase the permeability of medicine to capillary tubes and the penetrability to real tumour. DNA recombination and molecular recombination are used to prepare new-type constitutive fusion protein LDM-PV of anticancer targeting medicine Lidamycin and single-chain antibody. Its molecular vegith is about 37Kpa. It has the activity to inhibit ly-type collagenses and strong intrusion resistance kill action to cancer cells. It may be an ideal clinic exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Constitutive fusion protein of ridamycin as anticancer antiblotic and single-chain antibody \cdot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human genome: bialiciic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation, disegnosis; single nucleotide polymorphism; SNP; 45.
                                                                                           Lida-protein; LDP; Lida-chromophore; LDC; antibody; lidamycin; antibiotic; anticancer; tumour; cancer; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        / Match 13.7%: Score 16.4; DB 21; Length 44; Local Similarity 67.6%; Percel No. 28e-04; Local Similarity 6 Nismatches 11; Indels C 31; Conservative 6: Mismatches 11; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human map-related biallelic marker SEQ ID NO:2245.
                                                                                                                                                                                                                                                                                                                                                                                                         (MEDI-) INST MEDICINAL BIOTECHNOLOGY CHINESE ACA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 44 BP; 8 A; 14 C; 9 G; 13 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 ATGCCATAGTGACCCTCCTAACCCACACCTCATT 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 ATGCCATGGTGAACGGCCTCCACCATGTTTGATT 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
replace(24,C)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure: Page 2; 18pp; Chinese.
                                               Oligonucleotide PCR primer #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA267898 standard; DNA; 47 BP.
                                                                                                                                                                                                                                                                                                             99CN-0121668
                                                                                                                                                                                                                                                                                                                                                             99CN-0121668
08-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                     2hen Y, Li S, Jiang M:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI: 2000-432052/38.
                                                                                                                                                                                                                                                                                                          13-0CT-1999;
                                                                                                                                                                                                                                                                                                                                                             13-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                  CN1251840-A.
                                                                                                                                                                                                                                                                 03-MAY-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Key
variation
                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA267898;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 46
```

ò

ö

```
Which is
                             The primers AAV27066 and AAV27067 and the probe AAV27069 were used to identify the B8 kD double-stranded adenosine demannase protein. Which is double-stranded adenosine demonstate protein encoded by the double-stranded adenosine deaminase gene. The other protein being a fragment of 93 kD; both proteins have similar biological activity to the full length protein. Double-stranded adenosine deaminase is specific for double-stranded RNA and is useful for the diagnosis of disorders characterised by inappropriate double-stranded ribonucle: so disorders adenosine deaminase expression. Particularly for diagnosis of certain neurological or CNS disorders, e.g. Altheimer's disease, Hunthington's encephalitis or stroke, or other neurological conditions associated with
                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A new strain of HIV-1 was isolated from a seropositive, asymptomatic woman from Zaire: her serum reacted only moderately with peptides specific for HIV-1, including subgroup 0, and reacted with only one African-type V3 peptide. Peptides derived from V3 loops of the new HIV-1 strain are useful in vaccines and for immunodiagnosis. The present sequence represents an oligonucleotide primer which was used for amplifying DNA coding for the V3 loop of HIV-1 envelope dyscoprotein gp120 from various viral strains. A comparison of different strains allowed the Immunodominant epitope of HIV-1 MAD to be identified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human immunodeficiency virus; HIV-1; envelope glycoprotein gpl20; variable loop; Zaire; acquired immune deficiency syndrome; AIDS; vaccine; immunodiagnosis; polymerase chain reaction; PCR; ss.
                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New HIV-1 strain MAD and related nucleic acids and peptide(s) useful for diagnosing HIV-1 infections and generating vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cohen J, Guetard D, Montagnier L, Philbert F;
                                                                                                                                                                                                                                                                                                                                                      Score 16.2; DB 19; Length 32;
Pred. No. 3e+04;
                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                Sequence 32 BP; 7 A; 7 C; 10 G; 7 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                    Query Match 13.5%; Score 16.2; D. Best Local Similarity 70.0%; Pred. No. 3e+0. Matches 21; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                     60 GGGGTTCCAGCGTTCCTGAAATGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GGGATCCGATCGATCNGGGTAATGATCGAT 31
Example 3; Column 14; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HIV-1 gpl20 v3 loop PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example: Page 12; 24pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAT42149 standard; DNA; 33 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95FR-0001513.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95FR-0001513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (INSP ) INST PASTEUR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-395417/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FR2733493-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chamaret S.
Tabary I:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAT42149;
                                                                                                                                                                                                                                                                            aging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 49
AAT42149
  & × 0 0 0 0 0 0 0 0 0 0 0 0 0 × 0
                                                                                                                                                                                                                                                                                                                                                                                                                                       ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                    The invention relates to human cytokine signal transfer arrestin IV (B2317), to coDNA encoding it (A97467), and to the recombinant production of human cytokine signal transfer arrestin IV Human cytokine signal transfer arrestin IV is a meaber of the cytokine inducible SH2-containing protein, (IS) family and is a close homologue of SOCS+4 (suppressor of cytokine signalling: Genbank Accession No. AF035947). The gene encoding human cytokine signal transfer arrestin IV is located on chromosome 3P21.3. Sequences A97412-A87473 represent PCR primers used in, an exemplification of the invention to subclone human cytokine signal transfer arrestin IV cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ss; Human; double-stranded adenosine deaminase; neurological disorder; CNS disorder; PCR: primer; amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diagnosis of disorders characterised by inappropriate expression of enzyme! - comprises contacting tissue sample with labelled antibodies, ollyonucleotides or protein reagent and measuring association of enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Double stranded adenosine deaminase 88 kD protein antisense primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13.5%: Score 16.2; DB 21; Length 29; 72.4%; Pred. No. 2.9e+04; ive 0; Mismatches 8; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 29 BP; 5 A; 10 C; 7 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGGGATTCAGGGGTTCCAGCGTTCCTG 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGATGGATCCATGGTCCTCCACTCTG 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (WIST ) WISTAR INST ANATOMY & BIOLOGY.
                                                                                                                                                                            Cytokine signal transfer arrestin IV
                                                                                                                                                                                                                  Example 3; Page 10; 16pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95US-0555678.
94US-0197794.
94US-0280443.
95US-0457459.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 72.4%;
Watches 21: Conservative
                    21-DEC-1998; 98CN-0125687.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94US-055567B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV27067 standard; DNA; 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-SEP-1998 (first entry)
                                                                                                  Yo L, Jiang C, Fu Q;
                                                                                                                                    WPI: 2000-544295/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1998-347307/30
                                                          (UYFO-) UNIV FUDAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-NOV-11994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nishikura K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-JUL-1994;
01-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-NOV-11995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                USS763174-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-JUN-11998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV27067;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV27067
ID AAV
```

g

5

ŝ

```
30-0CT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WC5818930-AZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-0CT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           D7-MAY 1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAV39855:
                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                             4a tches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 51
                                                                                                                                                                                                                                                                                                                                                                                             đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     85088888858
                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a vector comprising an origin of replication, and a selectable marker gene operably linked to a prometer present in the origin of replication, for salective transposon insertion. The corigin of replication, for salective transposon insertion. The vector is free of sequences which tolerate transposon insertion. Also included is a method of constructing a cloning vector incapable of self-ligation comprising linearising the vector, exonuclease degrading constructing the vector, exonuclease degrading constructing the vector incapable of single-stranded fragments and them allowing the strands to anneal and single-stranded fragments and them allowing the strands to anneal and couble-stranded fragments and them allowing the strands to anneal and couble-stranded fragments and them allowing the strands to anneal and couble-stranded fragments and them allowing the strands to anneal and couple-stranded fragments and them allowing the strands to anneal and couple-stranded fragments and them allowing the strands to anneal and couple-stranded fragments and them allowing the strands to anneal and couple-stranded reagments and them allowing the strands to anneal and couple strands on the section in a transposon containing at least two primers capable of binding to the unique sequences. The insertion is carried out a recipient by only ugation, where the from the donor host cell to the zecipient by conjugation, where the content and the resolvase is confered by the recipient host cell, where the transposon but are provided by the donor host cell and and the resolvase is second transposons as is converted by the recipient host cell, where the transposons is second transposons to the transposons is second to the converted by the recipient host cell, where the transposons is second.
                                                                                                         ö
                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New vectors for selective transposon insertion, useful in
transposon-based DNA sequencing methods, comprises origin of
replication and selectable marker gene operably linked to promoter
present in origin of replication
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transposon resistant vector; pSAM: DNA sequencing; p3/7; fh204; ss; transposon gammadelta; PCR primer.
                                                          Match 13.5%; Score 16.2; DB 17; Length 33; Local Similarity BS.7%; Pred No. 3e-04; Decad Sciniarity BS. Conservative 0; Mismatches 3; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                            Transposon-resistant vectors pSAM/p3/7 PCR primer fh204.
                Sequence 33 BP; 11 A; 7 C; 11 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (EMBL-) EMBL EURO LAB MOLEKULARBIOLOGIE.
                                                                                                                                                     100 ACCTGCTGAATTGCAGTTTAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 13; 31pp; English.
                                                                                                                                                                           5 AGCTGCAGAATGGCAGTCTAG 25
                                                                                                                                                                                                                                                                                                        AAS17068 standard; DNA: 34 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ansorge W, Benes V, Hill F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-MAY-2000; 2000EP-0109906.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAY-2001; 2001WO-EP05357.
                                                                                                                                                                                                                                                                                                                                                                                             14-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-055601/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MO200185965-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                    AAS17068;
                                                               Query Match
                                                                                                         Matches
                                                                                                                                                                                                                                                                 RESULT 50
```

```
The present sequence represents a cloning primer used in an example from the present invention which describes proteins trom Streptococcus preumonlate. Nucleic acid sequence encoding Streptococcus preumonlates. Nucleic acid sequence encoding Streptococcus preumonlates for inducing protective antibodies against Streptococcus preumonlate. For inducing protective antibodies infection to 9, pneumonlate, for treatment or prevention of a infection to 9, pneumonlate, for treatment or prevention of a infection to 9, pneumonlate, for treatment or prevention of a infection of a prevention of infection of a prevention of a process are used to detect corresponding antipons, to purity the proteins and for passive immunisation (optionally coupled to a prevention and serior passive immunisation (optionally coupled to a corrib, vaccines and for passive immunisation (optionally optionally at 0 old 1000 (especially 10:100) am g/ml per dose.

The cloning primers used in the present invention are given in AAV27437
host cell lacks endonuclease I. recA and carries a selectable resistance gene. Where the transposon is a class II transposon preferably stransposon gammadeita or their derivatives, which is preferably ISIO2. The selectable marker confers resistance in a copy number dependent fashion, and inscrtion is carried out in parallel in several different donor host cells comprising different transposons containing different unique site for primer binding. The present sequence is a PCR primer used to construct the transposon-resistant vectors of the invention, psaw and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Streptoconcus pneumonlae; antigen; vaccine; infection; diagnosis; detection; pneumonia; otitis media; meningitis; cloning primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid encoding antigenic peptide(s) from Streptococcus promonoise - or their epitope-containing fragments, useful in protective or therapoutic vaccines, and for diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13.5%; Score 16.2; DB 24; Length 34: 85.7%; Pred, No. 3.1e+04; tive 0: Mismatches 3; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Streptococcus pneumoniae OMF cloning primer SEQ ID NO:378.
                                                                                                                                                                                                                                                                                                                                                                                                           p3/7, amplifying the chloramphenicol resistance gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Choi GH, Hromockyj A, Johnson LS, Kunsch CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 34 BP: 13 A: 4 C: 11 C: 6 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1: Page 108; 118pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   89 TIGGCTICCATAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29 TIAGCTICCTIAGCTCCTGAA 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV39895 standard; DNA: 37 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HUMA-) HUMAN GENOME SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97WO-US15422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96US-0025560.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-OCT-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     est Local Similarity 85,71
atches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Streptococcus pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI: 1998-272224/24.
```

ð

```
2 AGTAAGCITCCGAACCCATTCGCCATTAT 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                W09634874-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-NOV-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                        AAT70723;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gold 1.,
                                                                                                RESULT 53
                          g
                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABO84792 to ABO84904 represents nucleic acids which encode the Streptociocus pneumoniae antigens given in ABP$4557 to ABP$4669.

The S. pneumoniae antigens have antibacterial activity and can be used in vaccines. The S. pneumoniae antigens can also be used to prevent or attenuete a Streptococcal infection in an animal. The polynucleotides encoding the S. pneumoniae antigens can be used to polynucleotides encoding the S. pneumoniae antigens can be used to primers jused in the cloning of S. pneumoniae ORFS (open reading frames) which are used in an example from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Barash SC, Dillon PJ, Dougherty B, Fannon MR;
                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New Streptococcus pneumoniae antigens, useful for detecting
Streptococcus and for preventing or attenuating disease caused i
Streptococcus infection
                                                                                                                                             .;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Streptococcus pneumoniae; epitope; vaccine; antigenic protein; antibacterial; Streptococcal infection; detection; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 37;
                                                                                                Length 37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Streptococcus pneumoniae ORF cloning primer SEQ ID NO:378.
                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13.5%; Score 16.2; DB 24; 72.4%; Pred. No. 3.1e+04;
                                                                                          Score 16.2; DB 19;
Pred. No. 3.1e+04;
0; Mismatches B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        37 BP; 10 A; 11 C; 6 G; 10 T; 0 other;
                                                  Sequence 37 BP; 10 A; 11 C; 6 G; 10 T; 0 other;
                                                                                                                                                                                                                        11 AGTGACCCTCCTAACCCACACCTCATTAT 39
  to AAV27562 and AAV39870 to AAV39969.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example (1; Page 65; 70pp; English.
                                                                                                                                                                                                                                                                                                                                                                ABQ85056 standard; DNA; 37 BP
                                                                                          Match 13.5%;
Local Similarity 72.4%;
les 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-OCT-1997; 97US-0961083.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-JAN-2001; 2001US-0765272.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Streptococcus pneumoniae Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CHOI/) CHOI G H.
(KUNS/) KUNSCH C A.
(BARA/) BARASH S C.
(DILL/) DILLON P J.
(DOUG/) DOUGHERTY B.
(FANN/) FANNON H R.
(ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kunsch CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI: 2002-479261/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US2002061545-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Streptococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-MAY-2002.
                                                                                          Query Match
Best Local Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rosen CA;
                                                                                                                                                                                                                                                                                                                                                                                                                ABQ85056;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Choi GH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                  RESULT 52
```

ö

Gaps

ö

Indels

0; Mismatches

21; Conservative

Matches

Local Similarity

AGTGACCCTCCTAACCCACACCTCATTAT 39

```
AMT7070S-T70803 represent the random regions from a degenerate ssDNA library based on the sequence represented by AMT4089. These sequences care all ligands specific for fibrin clots identified using the method of the invention is for identifying nucleic the invention. The method of the invention is for identifying nucleic acid (NA) ligands and NA ligand sequences to a tissue target selected from peripheral blood mononuclear cells (PBMC's) (such as the ligands represented by AMT70617-T70704), and carotid arteries (such as these ligands). The method comprises preparing a candidate mixture of NA sequences, and contacting these preparing a candidate mixture of NA sequences, and contacting these with the tissue, whereby NAs having an increased affinity to the tissue relative to the candidate mixture of the increased affinity to the remainder of the candidate mixture. The increased affinity NAs are then partitioned from the remainder of the candidate mixture, and are amplified to yield a mixture of NAs enriched for NA sequences with a relatively higher affinity and specificity for binding to the tissue, whereby NA ligands of the tissue may be binding to the tissue, whereby NA ligands of the tissue may be allowed by exponential enrichment) method. The NA ligands and epitopes and macromolecules identified using the ligands can be used in diagnostic cancer screening, AIDS monitoring, detection and localisation of thrombi or atherosclerosis diagnosis and therapy.
                                                                                                                                                                                                                                                                                                                        Ligand; peripheral blood mononuclear cell; fibrin clot; carotid artery; systematic evolution of ligands by exponential enrichment method; PBMC; epitope; macromolecule; tissue SELEX method; cancer acreening; therapy; AIDS monitoring; localisation of thrombl; atherosclerosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acid ligands used in cancer screening, AIDS monitoring etc. - bind to peripheral blood mononuclear cells, fibrin clots or carotid arteries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mod_base= all C's are 2-fluorine-C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mod_base- all U's are 2-fluorine-U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Stephens A:
                                                                                                                                                                                                                                                          Stenotic carotid artery binding ligand Clv34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 23; Page 56; 138pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Speck U,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          65090SD-0M96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                950S-0433126.
950S-0433124.
                                    AAT70723 standard: RNA; 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (NEXS-) NEXSTAR PHARM INC. (SCHD ) SCHERING AG.
                                                                                                                                                                                    30-JUL-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schneider DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MPI; 1996-506091/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modified_base
AAT70723
XXX
XXX
XXX
XXX
XXX
AAT7
BE STEP
BE S
```

윰

ç

```
89 TTGCCTTCCATAGCTGCTGAA 109
89 TIGGCTICCAIAGCTGCTGAA 109
                             22 Trageticetragerectean 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22 TTAGCTTCCTTAGCTCCTGAR 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match
Best Local Similarity 85...
Thes 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-MAR-1998.
                                                                                                                                                                                                                                                                                                              AAV25805;
                                                                                                                                                                 RESULT 55
AAV25805/c
ID AAV258
                                                                                                                                                                                                                                                                                                                                                a
                                                           đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence represents the initiation region of a CAI gene, used in the present invention. The present invention describes a method for coverproducing a protein (i) that has an N-terminal amino acid (as) other than Net. The method comprises introducing into cells DNA (II) encoding (i) and having a first coden other than that for Net: (II) DNA (II) encoding a mutant initiator transfer RNA containing the appropriate (i) and nature of a maint and on an (iii) DNA (IV) encoding Met-tRNA transformylase (V). The cells are then maintained under conditions that allow overproduction of (V) and expression of (II). Also described are (I) produced this way. (I) is initiated by Val. Ile or Phe. The host cell is Escherichia coll. and may also be transformed with DNA (VI) encoding the appropriate conditions that the corresponded by the method is particularly used to produce haemoglobin and somatotropin, or other (I) that are toxic to the producing cells. The combination of mutant initiator than and (II) producing acids. The combination of mutant initiator than and vild type gene, particularly a 5-6 fold increase.
                                                                                                                                                                      ö
                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Over-production of protein that does not begin with methionine in cells - that contain DNA encoding the protein, mutant initiator transfer NNA and methionyl-tRNA transformylase, particularly for hemoglobin and somatotropin production
                                                                                         Match 13.5%; Score 16.2; DB 17; Length 40; Local Similarity 61.9%; Pred No. 3.2±-04; Conservative 5; Mismatches 3; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query March 13.54; Score 16.2; DB 19; Length 41; Best Local Similarity 85.74; Pred. No. 33-94-04. Marches 18; Conservative 0; Mismatches 3; Indels of Marches 18; Conservative 0; Mismatches 3; Indels of the conservative 19; Mismatches 19; Mismatch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protein synthesis: in vivo; ValRS gene; E.coli; haemoglobin; somatotropin; CAT gene; initiation region; ss.
xx
SQ Sequence 40 BP; 11 A; 12 C; 10 G; 7 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 41 BP; 18 A; 8 C; 8 G; 7 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mutant CATV1.2.5 gene initiation region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                      92 GCTTCCATAGCTGCTGAATIG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Fig 2B; 28pp; English.
                                                                                                                                                                                                                                                                                     10 GCUUCDAAAGCUGCUGAAUCG 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV25804 standard: RNA; 41 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-AUG-1997; 97WO-US15204.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-AUG-1996; 96US-0705196.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-JUL-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1998-179444/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rajbhandary UL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W09808959-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAR-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAV25804;
                                                                                                      Query Match
                                                                                                                                                                      Matches
```

```
The present sequence represents the initiation region of a CAT gene, used in the present invention. The present invention describes a method for coverproducing a protein (1) that has an wiverminal amino acid (as) other coverproducing a protein (1) that has an wiverminal amino acid (as) other than wet. The method complises introducing into calls DNA (II) encoding into calls DNA (III) by (III) and other than that for Wet: (III) DNA (III) cencoding a mutant initiator transfer RNA containing the appropriate anti-codon and (III) DNA (IV) encoding Wet-tRNA transformylase (V). The colls are then maintained under conditions that allow overproduction of (V) and expression of (III). Also described are (I) produced this way.

(I) is initiated by Val, II so the Fire the bost cell is Expenditate and any also be transformed with DNA (VI) encoding the appropriate conditions that also overproduced, particularly used to produce haemoglobin and somalotropin, or other (I) that are toxic to the producing cells. The combination of mutant initiator IRNA and (II) provides more (I) than wild-type initiator IRNA and vild-type gene, particularly a 5-6 told increase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Over-production of protein that does not begin with methionine in cells - that contain DNA encoding the protein, mutant initiator transfer RNA and methiony -tRNA transformylase, particularly for haemoglobin and somatocropin production
                                                                                                                                                                                                                                                                                                                                                         Protein synthesis; in vivo; ValRS gene; E.coli; haemoglobin; somatotropin; CAT gene; initiation region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 41 BP; 19 A; 8 C; 7 G; 7 U; 0 other;
                                                                                                                                                                                                                                                            Mutant CATIL.2.5 gene initiation region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure: Fig 2B; 28pp; English.
AAV25805 standard; RNA: 41 8P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97WO-US15204.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96US-0705196.
                                                                                                                                                                               10-JUL-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1998-175444/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
Escherichia coll.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rajbhandary UL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           W09808959-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-AUG-1556;
```

0: Gaps

13.5%; Score 16.2; DB 19; Length 41; 85.7%; Pred. No. 3.3e+04; Live 0: Mismatches 3; Indels 0

RESULT 56 AAV25803/c

.; ;

Gaps

Wed

```
Probe: cytostatic: virucide; immunomodulator; antiinflammatory;
                                                       inflammation; ss
                                                                                                 WO200179426-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200179426-A2
                                                                                                                                                                                                               Mao Y, Xie Y;
                                                                             Homo sapiens
                                                                                                                        25-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo saplens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABA04578;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Probe #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    윱
                                                                                                                                                                                                                                                                                                                                                                                       The present sequence represents the initiation region of a CAT gene, used to the present invention. The present invention describes a method for overproducing a protein. (I) that has an N-terminal amino acid (as) other than wet. The method comprises introducing into cells DNA (II) encoding to than wet. The method comprises introducing into cells DNA (II) encoding the opporation of anti-codon and (III) MA (IV) encoding the appropriate anti-codon and (III) MA (IV) encoding the appropriate anti-codon and (III) MA (IV) encoding the transformylase (V). The colls are then maintained under conditions that allow overproduction of (I) is initiated by val, ile or phe. The host cell is Escherichia coli aminoacil transformed with DNA (VI) encoding the appropriate and may also be transformed with DNA (VI) encoding the appropriate conditions that is the first amino acid. The method is particularly used to producing cells. The combination of mutant (I) that are toxic to the provides more (I) than wild type gene, particularly a 5-6 fold increase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                  Over-production of protein that does not begin with methionine in
                                                                                                                                                                                                                                                                                                                            cells - 'that contain DNA encoding the protein, mutant initiator transfer RNA and methionyl-transformylase, particularly for haemoglöbin and somatotropin production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 41;
                                                                                    Protein synthesis; in vivo; ValRS gene; E.coli; hacmoglobin; somatotropin; CAT gene; initiation region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13.5%; Score 16.2; DB 19;
85.7%; Pred. No. 3.3e+04;
ative 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 41 BP; 19 A; 7 C; 8 G; 7 U; 0 other;
                                                                                                                                                                                                                                                (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGGCTTCCATAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Fig 2B; 28pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAT2.5 gene initiation region
                                                                                                                                                                                                   97WO-US15204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; DNA; 41
AAV25803 standard; RNA; 41
                                          10-JUL-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 85.7
Matches 18: Conservative
                                                                                                                                                                                                                                                                                            WPI; 1998-179444/16.
                                                                                                                      Synthetic.
Escherichia coll.
                                                                                                                                                                                                                                                                     Rajbhandary UL:
                                                                                                                                                      WO9808959-A1.
                                                                                                                                                                                                   28-AUG-1997;
                                                                                                                                                                                                                          29-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-FEB-2002
                                                                                                                                                                              05-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABA04577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABA04577
                     AAV25803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Probe #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABA04577
ID ABAC
XX
AC ABAC
XX
DT 15-1
XX
DE Pro
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

```
ö
haemostatic; gene therapy; human; tumour; breast cancer; leukaemia;
kinetic ataxia telangiectasia protein; ATM20; haemopathy; HIV infection;
ataxia telangiectasia; developmental disorder; immunological disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Probe; cytostatic; virucide; immunomodulator; antiinflammatory; hambanstatic; gene therapy; human; tumour; breast cancer; leukaemia; kinetic ataxia telangiectasia protein; ATM20; haemopathy; HIV infection; ataxia telangiectasia; developmental disorder; immunological disease; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human kinetic ataxia telangiectasia protein ATM20 and encoded polynucleotide, applicable in diagnosis and treatment of e.g. malignant tumor, hemopathy, HIV infection, immunological diseases and various inflammations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a novel human kinetic ataxia telangiectrasia protein ATM20. ATM20 and its coding sequence are useful in the diagnosis and treatment of malignant tumours, e.g. breat cancer and leukaemia; heemopathy; HIV infection; ataxia telangiectasis; and leukaemia disorders; immunological diseases and various inflammations. The present sequence is a probe, which was used in an example from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 13.5%; Score 16.2; DB 24; Length 41; Local Similarity 85.7%; Pred, No. 3.3e+04; les 18; Conservative 0; Mismatches 3; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 41 BP; 12 A; 18 C; 3 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BIOW-) BIOWINDOW GENE DEV INC SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 6; Page 15; 28pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 CCTAACCCACACCTCATTATC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTCACCCAAACCTCATCATC 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-MAR-2001; 2001WO-CN00370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-MAR-2000; 2000CN-0115022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-MAR-2001; 2001WO-CND0370.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABA04578 standard; DNA; 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-066355/09
```

ö

O: Gaps

```
The present invention describes a method for determining whether a subject is affiltacted with a disorder characterised by the presence of a known nucleir acid. The method comprises: (1) amplifying, in an isolated sample from the subject, the nucleic acid segment that, in an affected individual contains (A). (II) Iterating the amplicons with a catalytic nucleic acid (1) that specifically recognizes and cleaves it stayed sequence present in either the mutated or vialt-type segments, but not in both, and (iii) detecting any cleavage caused by (I). Step to not in both, and (iii) detecting any cleavage caused by (I). Step (II) may be performed concurrently with (i). The method is specifically syndrome and cystic fibrosis. (I) recognises as few as two by to create a cleavage site (contrast at least 4 bp required by marynes used in restriction iragment length polymorphism (RRLP) analysis; such sites or create more frequently than restriction enzyme sites, and mismetched specimens or primers can be used to induce cleavage sites for (I). The method is potentially more fiexible than RFLP and does not require any enzymes or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Catalytic nucleic acid-based diagnostic method; determination; AIDS; mutation; ribozyme; target; cleavage; amplification; PCR primer; probe; cancer; human immune deficiency virus; cystic fibrosis; HIV; ss.
   Also a Mac3 restriction site is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting diseases associated with a known mutation by amplification and cleavage with catalytic mucleic acids, particularly for cencer, human immune deficiency virus and cystic fibrosis.
providing a simple diagnostic test. Also a MacJ restriction site increated by the mutation, providing an alternative enzyme test. Mitochondrial but and be obtd. from blood cells, platelets, hair follicle, muscie, brain, liver, amniocentesis fluid etc. Oligonucleotides can be preped. complementary to both Leber's and normal mtbM sequences that include nucleotide 1178. The probes are designed on the DMA strand appropriate to eliminate promiseuous G-T hybridiation by avoiding the use of G or T in the informative position. See also AAQ35965.70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acid-based diagnostic exemplification oligonucleotide #76.
                                                                                                                                                                                                                                                                                                                Query Match 13.5%; Score 16.2; DB 14; Length 42; Beat Local Similarity 64.9%; Pred. No. 3.3e+04; Matches 24; Conservative 0; Mismatches 13; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                              14 GACCCICCTAACCCACACCTCATIATCCCCACTCCAG 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 42 BP: 13 A: 15 C: 5 C: 9 T: 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (JOHJ ) JOHNSON & JOHNSON RES PTY LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 26; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Todd AV, Fuery CJ, Cairns MJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA234414 Standard; RNA; 45 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9805-0079651.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-MAR-1999; 99WO-1B0084B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-DEC-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1959-591332/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W09950452-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27 - MAR - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-0CT-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AA234414;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 60
AA234414/c
ID AA2344
         88888888888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                               Human kinetic ataxia telangiectasia protein ATM20 and encoded polynucleotide, applicable in diagnosis and treatment of e.g. malignant tumor, hemopathy, HIV infection, immunological diseases and various inflammations
                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a novel human kinetic ataxia telandiectash protein ATMO. ATMOS and its coding sequence are useful in the diagnosis and treatment of malignant tumours, e.g. breast cancer and leukamis; heemopathy; HIV infection; ataxia telandiectasia; developmental disorders, immunological diseases and various inflammations. The present sequence is a probe, which was used in an example from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The probe may be used in a method for detection of neuromuscular diseases associated with a point mutation at mitochondrial DNA position 1178, partic. Leber's hereditary optic neuropathy (LHON). The point mutation changes G to A at position 11778, and converts the 340th amino acid of NADM dehydrogenase subunit 4 from Arg to His, thus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting point mutation at mitochondrial DNA position 11778 useful for detecting neuromuscular diseases esp. Leber's hereditary optic neuropathy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LHON; mutation; neuromuscular disease; NADH dehyrogenase; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hatch 13.5%; Score 16.2; DB 24; Length 41; Local Stallarity B5.7%; Pred. No. 33-404. See 31 indels 0; Mismatches 3; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 41 BP; 12 A; 18 C; 3 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Probe for Leber's hereditary optic neuropathy.
                                                          (BIOM-) BIOWINDOW GENE DEV INC SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                    Example 6; Page 15; 28pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 CCIAACCCACACCTCATIAIC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 CCTCACCCAAACCTCATCATC 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 29; Page 8; 8pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA035969 standard; DNA; 42 BP.
         22-MAR-2000; 2000CN-0115022.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    890S-0447679.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        890S-0447679.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-JUN-1993 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI: 1993-067159/08.
                                                                                                                                                                  WPI: 2002-066355/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYEM-) DNIV EMORY.
                                                                                                                 Mao Y. Xle Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-DEC-1989:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-DEC-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US5185244-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-FEB-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ35969;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tches
```

õ

ប្រ<mark>ប</mark>ន្តន

ABA96818/c

õ a

```
The invention relates to a novel truncated vector, 2 kb in length, compressing a truncated VL30 retrotransposon genome, a 5' and 3' long terminal repeat (LTR) sequence from a VL30 retrotransposon, a VL30 retrotransposon primers AL31058-291071 were used to generate the new truncated vector. Intervector into the genome of a recipient cell. The primers AAL31058-291071 were used to generate the new truncated vector. Sequences, and therefore have many useful applications in gene thereby and transposon; e.g. the vector can be used for delivering and expressing a toxin gene to a recipient cell and for in vivo recombinant protein production in mammary cells.
                                                                                                                                          Truncated VL30 retrotransposon genome; long terminal repeat; LTR; PCR primer; polypurine tract; genome integration; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transformed cell; gene Lherapy; gene transfer; gene amplification; gene expression; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New truncated vector useful in gene therapy and transgenic applications, comprises a reduced VL30 retrotransposon genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Match 13.5%; Score 16.2; DB 21; Length 45; Local Similarity 64.9%; Pred. No. 3.4e+04; es 24; Conservative 0; Mismatches 13; Indels (
                                                                                                     Primer N5 for novel gene therapy retrotransposon vector.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer N5, used for gene amplification reactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 ATTAATTAGATCTAGCATGATGAACAAGATGGATTG 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                55 ATTCAGGGGTTCCAGCGTTCCTGAAATGATCGATTG 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 45 BP: 16 A; S C; 10 G: 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Column 17-18; 49pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NATU-) NATURE INCHNOLOGY CORP
                                                                                                                                                                                                        Moloney murine leukemia virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAD18777 standerd; DNA; 45 BP
                                                                                                                                                                                                                                                                                                                                                                                         920S-0968259
930S-0030766.
930S-0060568.
930S-0130638.
940S-0130638.
                                                                                                                                                                                                                                                                                                                                  94US-0213741.
                                                                                                                                                                                                                                                                                                                                                                         90US-0603635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-DEC-2001 (first entry)
                                                              06-JUN-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-194817/17.
                                                                                                                                                                                                                                                                                                                                                                                         29-0CT-1992;
12-MAR-1993;
21-MAY-1993;
26-JUL-1993;
01-0CT-1993;
07-FEB-1994;
                                                                                                                                                                                                                                                                                                                                  14-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                         25-OCT-1990;
                                                                                                                                                                                                                                               US6027722-A
                                                                                                                                                                                                                                                                                           22-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hodgson CP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAD18777;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                    AA291063;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yeast aspartic protease 3 (YAP 3) gene-deficient novel yeast strains and process for producing recombinant human parathyroid - hormone using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to movel yeast strains that lack the yeast appartic protease 3 (XA23) gene which can be used for the recombinant production of human parathyroid horamone (HPTH). The invention also encompasses the process for the recombinant production of hPTH in such yeast strains. Sequences ABA96816-ABA96627 represent oligonucleotides which were annealed and ligated together to produce a polynucleotide expressed in a YAP3-deficient yeast strain of the invention.
                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
toxic compounds. AAZ34339 to AAZ34450 represent oligonucleotide sequences used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13.54; Score 16.2; DB 21; Length 45; 64.94; Pred. No. 3.4e+04; tive 0; Mismatches 13; Indels
                                                                                                     Length 45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human: parathyroid hormone; hPTH: recombinant production;
YAP3 deficient strain; yeast aspartic protease 3;
Saccharomyces cerevisiae; gene construction; ss.
                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human parathyroid hormone (hPTH) oligonucleotide C3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           70 CGTTCCTGAAAATGATCGATTGGCTTCCATAGCTGCT 106
                                                                                                y Match 13.5%; Score 16.2; DB 20; Local Similarity 72.4%; Pred. No. 3.4e+04; hes 21; Conservative 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 45 BP; 13 A; 12 C; 12 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chung BH, Kim SJ, Lee SG, Kang HA, Choi US:
                                                           Sequence 45 BP; 13 A; 9 C; 15 G; 7 U; 1 other;
                                                                                                                                                                                     CCTCCTAACCCACACCTCATTATCCCCAC 45
                                                                                                                                                                                                        (KOAD ) KOREA ADV INST SCI & TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 4; 8pp; Korean.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; DNA; 45 HP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97KR-0047147.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97KR-0047147
                                                                                                                                                                                                                                                                                                                                  ABA96818 standard; DNA: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match
Best Local Similarity 64.5.
Best Local 24: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                  07-MAY-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-290603/25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KR99025486-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  36-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA291063
                                                                                                                                                                                                                                                                                                                                                                         ABA96818
                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the same
```

ö

Gaps

ö

RESULT 62 AA291063 ID AA291

ઠે a

```
This invention describes novel ceramide combining peptides. Such peptides are useful as a tool for elucidating the molecular mechanism of cell signal transfer and various cell functions and life phenomena accompanied
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AMT0418 and AAT04419 are DNA molecules complementary to certain areas of human papillomavirus (HPV) 16 K and ET regions. They are used in the construction of HPV-16 E6 and ET ribosymes. AAT0418 incorporates a hammerhead thosyme motif targeting the "Uto" almost adjacent to the E6 translational start site corresp. to nucleotides 108-110 of HPV-16 genomic DNA. HPVs are strongly implicated as important cofactors in development of many human cancers, in partic, anogenital carcinomas. The tibosymes are designed to cleave HPV-16 E6 or E7 ORK transcripts in proximity to translational start sites. The ribosymes cleave mRNA electional start sites. The ribosymes cleave mRNA election of E7 on E7 or 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human papillomavirus 16; HPV 16; E6; E7; ribozyme; cleavage; cancer;
anogenital carcinoma; S9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ribozyme(s) targeted at human papilloma:virus (HPV) · to reduce the expression of HPV 16 E6 or E7 transcripts, useful in the treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Natch 13.5%; Score 16.2; UB 22; Length 45; Local Similarity 64.9%; Pred. No. 3.4e+04; es 24; Conservative. 0: Mismatches 13; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        82 TGATCGATTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 TGATGGTTTTGATTTTGTTGTTGCTGATTCGCTGTCT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 45 8P: 3 A: 6 C: 12 G: 24 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HPV-16 E6 DNA used in ribozyme construction.
                                                                                                                                                                                                                                                                                               Disclosure: Page 9: 10pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 20: 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAT04418 standard: cDNA: 46 BP.
                                                                                                                                                                                                                                   A ceramide-combining peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              94WC-US02559.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94WO-US02559.
                                                                                  (SAKA ) OTSUKA PHARM CO LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-JUN-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chatterjee S, Wong K:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CITY ) CITY OF HOPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human papillomavirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1996-010506/01.
                                                                                                                                             WPI; 2001-184995/19.
                                                                                                                                                                               P-PSDB: AAB46784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W09524477-A1.
                          10-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-SEP-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAT0441B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 65
AATO4418/C
ID AATO44
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tches
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The patent discloses a method of transferring a DNA sequence to a cell in vitro. The method involves introducing a DNA transfer vector into the cell in vitro to yield a transformed cell, which produces a recombinant virus that comprises RNA transcribed from the DNA vector. The method employs synthetic vectors that are truncated so as to reduce or altogether eliminate homologous recombination with retroviral helper sequences found in helper cells used to propagate the vectors, making them safer for use in humans and providing more convector, making them safer for use in humans and providing more the vectors, making them safer for use in humans and particularly useful cor a variety of applications where it is important to use materials allowing the efficient and faithful transmission of large genes for expression at significant levels. The present DNA sequence is a PCR primer, NS which is used in gene amplification reactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Transferring a DNA sequence to a cell in vitro, useful in gene therapy ofor transmission of large genes, comprises introducing a transfer vector to yield a transformed cell that produces a virus having RNA transcribed from the DNA vector
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match
13.51; Score 16.2; DB 22; Length 45;
Best Local Similarity 64.96; Pred. No. 3.44-04.
Matches 24; Conservative 0; Mismarches 13; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ceramide affinity peptide Cer8P#28 encoding DNA SEQ ID 20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   55 ATTCAGGGTTCCAGCGTTCCTGAAAATGATCGATTG 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 ATTAATTAGATCTAGCATGATGAACAAGATGGATTG 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ceramide; cell signal transfer; cell function; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 45 BP; 16 A; 5 C; 10 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Column 17; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     (NATU-) NATURE TECHNOLOGY CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF25926 standard; DNA; 45 BP.
                                                                                                                                                                                                                                                                                                                         93US-0097721.
93US-0130638.
94US-0194208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99JP-0128674
                                                                                                                                                                                                  95US-0522336.
                                                                                                                                                                                                                                                                 930S-0030766.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-APR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-610607/70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JP2000319296-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-MAY-1999;
                                                                                  US6287863-B1.
                          Unidentified.
                                                                                                                                                                                                     09-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                         07-FEB-1994;
                                                                                                                                                                                                                                                                 12-MAR-1993;
12-MAY-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-NOV-2000
                                                                                                                                             11-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hodgson CP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF25926;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 64
```

ò

Gaps

Query Match

å

ò

ABK40901

```
Factor VIII C domain; human; blood clotting; haemophilia; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA sequence of portion of human Factor VIIIC for treating and preventing the symptoms of haemophilia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Masiarz FR, Valenzuela P,
3 ACCACCCTTACCCAGTCTTCCRCCTTCCCACACCTGA 39
                                                                                                                                                                                                                                                                                                                                                       Human Factor VIIIC 67/70kd doublet probe #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 10: Page 5: 39pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            84US-0570062.
84US-0664919.
85EP-0100223.
91EP-0113267.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-JAN-1985; 2000EP-0200860
                                                                                                                                                             AAA58433 standard; DNA; 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ88986 standard; RNA; 50
                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (NOVO ) NOVO-NORDISK AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kuo G, Rasmussen ME,
Favaloro J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-367967/32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CHIR ) CHIRON CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-JAN-1984;
26-OCT-1984;
11-JAN-1985;
11-JAN-1985;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EP1006182-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-SEP-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA088986;
                                                                                                                                                                                                                             AAA58433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ88986,
                                                                                                    RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                             NACTOR ON A MANAGEMENT OF A MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a set of novel map-related biallelic markers, preferably located on obesity disorder-associated chromosomal regions on estimating the frequency of an allele in a population, for detecting an association between a genotype or haplotype and a phenotype, e.g. a disease involving drug responses, obesity or disorders related to obesity, such as hyperuricaemia, digestive pathology, hepatic function disorders, accer, candiovascular disease, hypertension, hyperlipidaemia, insulin disorders, atheromatous disease and cardiac insufficiency. The markers are useful for detecting a statistical correlation between a biallelic marker this sequence represents a human obesity, associated biallelic marker located on chromosome 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ruman; obesity associated-biallelic marker; chromosome 10; obesity; ds; drug response; hypertenaistric digestive pathology; hypertenaisin; cancer; hepatic function disorder; cardiovascular disease; hyperlipidaemia; insulin disorder; atheromatcus disease; cardiac insufficiency.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Set of novel map-related biallelic markers, preferably located on obesity disorder associated chromosomal regions on chromosomes 3, 10 and 19, juseful, for e.g. detecting statistical correlations between marker allele and a phenotype
                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chumakov I, Abderrahim H, Bihain B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human obesity-associated chromosome 10 biallelic marker #109.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13.5%; Score 16.2; DB 24; Length 47; 64.9%; Pred. No. 3.4e+04; tive 0; Mismatches 13; Indels
                                                                                                                                Length 46;
                                                                                                                                                                                                                                                          TGCCATAGTGACCCTCCTAACCCACACCTCATTATCCCCACTCCA 49
                                                                                                                      Match 13.5%; Score 16.2; DB 17; Length Local Similarity 60.0%; Pred. No. 3.4e+04; es 27; Conservative 0; Mismatches 18: Indels
                                                                                                                                                                                                                                                                                                  ACCCTCCTAACCCACACCTCATTATCCCCACTCCAGA 51
                                                            Sequence 46 BP; 12 A; 9 C; 15 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 47 BP; 11 A; 24 C; 2 G; 9 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 page 223; 311pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-JUN-2001: 2001WO-IB01477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-JUL-2000; 2000US-219704P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABK40901 standard; DNA; 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cohen D, Blumenfeld M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-155043/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
       of human cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200206525-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-JAN-2002.
```

(GEST )

Claim 1;

Query Match

ò

Truett M:

```
The present sequence is a probe for the human Factor VIIIC 67/70kd doubbit, which can be obtained by thrombin digestion of the 77/80kd fragments of the protein. The probe was created using the partial N-terminal sequence of the two fragments. Factor VIIIC is a plasma protein involved in blood coagulation, and is absent or defective in hemophilia A. The Pactor VIIIC protein can, therefore, be used to treat hemophilia A. The Pactor VIIIC protein can, therefore, be used to treat hemophopilia, as well as in the production of monoclonal antibodies VIIIC subunits in physiological fluids, for example blood or serum.
                                                                                                                                                                                                                                                                                                                                                                                                                    Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid; ligand: thrombin; elastase; theophylline; caffeine;
                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                            Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28 ACACCTCATTATCCCCACTCCAGAGGATTCAGGGGTTCCAGGGT 72
                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VEGF 2'-NH2-RNA nucleic acid ligand family 1, oligo 28B.
                                                                                                                                                                                                                                                                                                                                                      Score 16.2; DB 21;
Pred. No. 3.4e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                    16;
                                                                                                                                                                                                                                                                                              Sequence 48 BP; 9 A; 14 C; 8 G; 9 T; 8 other;
                                                                                                                                                                                                                                                                                                                                                                                                              8; Mismatches
```

```
WPI; 2001-570627/64.
                                                                                                                       (OXAG-) OXAGEN LTD.
                       W0200162788-A2.
 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                               30-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX06549;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 70
AAX06549/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human: single nucleotide polymorphism; SNP; PCR primer; antiinflammatory; antipsorlatic; corneodesmosin; inflammatory disease; psorlasis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                    The sequences given in AA088982-91 represent nucleic acid ligands to vascular endochelial growth factor (VSEP). These ligands all accordant the consensus sequence given in AA088952. These ligands were identified using the method of the invention. The method comprises contacting a candidate mixture on the invention. The method comprises where the nucleic acids which have an increased affinity to the target relative to the candidate mixture can be partitioned from the remainder of the candidate mixture. The increased affinity nucleic acids are partitioned from the remainder of the candidate mixture of the candidate mixture of nucleic acids are applified to yield a ligand-enriched mixture of nucleic acids are much in which the nucleic acid ligands may be used as pharmaceuticals, diagnostic agents and in gene therapy. The ligands may be RNA or DNA molecules.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
pharmaceutical; diagnosis; vascular endothelial growth factor; gene therapy; RNA; DNA; ss.
                                                                                                                                                                                                                                                                                        Biesecker G, Gold I., Janjic N. Jayasena S, Jenison RD:
Kirschenheuter GP, Pieken W, Polisky B, Smith D, Tasset D;
                                                                                                                                                                                                                                                                                                                                                  Identifying nucleic acid ligands for target molecules - by attrictioning increased affinity nucleic acids from a candidate mixt. and amplifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13.5%; Score 16.2; DB 16; Length 50; 72.4%; Pred. No. 3.5e+04; tive 0; Mismatches 8; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Corneodesmosin single nucleotide polymorphism #18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 50 BP; 10 A; 5 C; 23 G; 12 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16 CCCTCCTAACCCACACCTCATTATCCCCA 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag= a
/note= "2'-NH2-Cytosine"
                                                          Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                 Claim 37; Fig 34; 251pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAS43521 standard; DNA; 50 BP.
                                                                                                                                                                                                     93US-0134028.
94US-0199507.
94US-0233012.
94US-0234997.
                                                                                                                                                                    94WO-US10306.
                                                                                                                                                                                            93US-0117991.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-DEC-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              est Local Similarity 72.4
                                                                                                                                                                                                                                                                                                                             WPI: 1995-123436/16.
                                                                                                                                                                                                                                                                   (NEXA-) NEXAGEN INC.
                                                           Key
modified_base
                                                                                                                                                                    08-SEP-1994;
                                                                                                                                                                                                                   22-FEB-1994;
25-APR-1994;
28-APR-1994;
                                                                                                                                                                                            08-SEP-1993;
                                                                                                                   W09507364-A.
                                                                                                                                            16-MAR-1995
                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAS43521;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 69
                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

```
The invention relates to cornecdesmosin protein (1) and nucleic acid (11) encoding the cornecdesmosin gence, where the gene comparises a base substitution, deletion or linsertion at one or more positions. (1) and custification to the control of the cornecdesmosin procedesmosin useful for screening for agents for use in prognosis, diagnosis and treatment of individuals having or being susceptible to cornecdesmosin mediated disease, by monitoring the reaction between the molecules and the agents. The nucleculed and animo acid polymorphisms are useful for diagnosing or determining susceptible to cornecdesmosin.

The useful in diagnosing or determining susceptible to cornecdesmosin.

The useful in diagnosing or determining susceptible to cornecdesmosin.

The useful in diagnosing or determining particular psoriasis. Fragments of (1) are useful in diagnosit, prognosit or therapeutic methods and as research tools for e.g. in drug screening. (11) is useful as probes or primers for detecting an allele of the polymorphism or in the regulation of cornecdesmosin appears. Antibodies which binds to (1) are useful for screening DNA clone libraries for cells secreting the antipen. (11) is useful as an model to investigate the role of cornecdesmosin in normal skin function. Addisology and present cornecdesmosin coding the structure of the addisornal coding structure and prognosing the structure and por primers of the sequences, single nucleotide polymorphisms (SNPS) and PCR primers of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Polymorphism: biallelic: paternity testing; forensic: genetic mapping:
phenotypic typing: medicament; disease: marker; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Corneodesmosin protein and polynucleotide encoding it, having one or more polymorphisms useful in treating, diagnosing or determining susceptibility to corneodesmosin mediated diseases, for e.g. inflammory diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ch 13.5%: Score 16.2; DB 22; Length 50: 1 Similarity 57.4%: Pred No. 3.55-04: 3.56 of 3.7; Conservative 1: Hismatches 19; Indels 77; Conservative 1: Hismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                48 CAGAGGGATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGATTGGCT 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human biallelic polymorphic DNA fragment SGC35842.
                                                                                                                                                                                                                                                                                                                                         Olaveson M. Lench N. Allen M. Tazi-Ahnini R:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 50 BP: 9 A; 21 C: 8 G: 11 T: 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 35; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX06549 standard; DNA; 31 BP
23-FEB-2001; 2001WO-GB00795.
                                                                                                         23-FEB-2000, 2000GB-0004312.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAR-1999 (first entry)
```

Caps

```
WPI; 2001-218457/22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W09746583-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Felis catus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAV56632;
  ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                            Sequences AAX06101-X06558 represent human DNA fragments which contain to biallelle polymorphic markers. The base occupying the polymorphic site is indicated by the appropriate IDPAC-IUB ambiguity code. These reagancies can be used in a method for determinant polymorphic forms in midvidual. The invention further provides computer-readable storage medium for storing data for access by an application programme being executed on a data processing system. Such a method comprises a data structure stored in the computer-readable storage medium, the data structure including information resident in a database used by the application programme and including records, each record comprising information identifying a polymorphic solve in the above sequences. The products and methods can be used for analysing polymorphic sites in individuals for testing or genetic mapping of phenotypic traits. They can also be used for the production of polymorphic raits. They can also be used for the production of polymorphic animals. The nucleic access and seems and for the production of transgenic animals. The nucleic access and seems and second in the manufacture of medicaments for the access of the producture of medicaments for the access of the producture of medicaments for the producture of producture of the producture of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                        New nucleic acid segments containing polymorphic sites - used for, e.g. detecting a disease phenotype, in forensics, paternity testing or genetic mapping of phenotypic traits
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGB; therapeutic; prophylactic; attenuated gram-negative bacterium; bacteriophage; capsid protein; tumour; cancer; melanoma; fusogenic; cytostatic; gene therapy; OmpA; PCR primer; interleukin; IL2; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Watch 13.34; Score 16; DB 20; Length 31; Local Similarity 73.14; Pred. No. 3.5e+04; les i9; Conservative 1; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 31 BP; 13 A; 3 C; 5 G; 9 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OmpA-8L-1L-2 gene fusion generating primer.
                                                                                                                        Berno A. Chee M. Fan J. Lipshutz RJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64 ITCCAGCGTTCCTGAAAATGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            treatment or prophylaxis of diseases.
                                                                                                                                                                                                                                                                                             Claim 1: Page 33; 61pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard; DNA; 42 BP
98WO-US12930.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-AUG-2000: 2000WO-US23243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-0150928
                                        97US-0050594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-MAY-2001 (first entry)
                                                                                (AFFY-) AFFYMETRIX INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (VION-) VION PHARM INC
                                                                                                                                                                4PI; 1999-080963/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    W0200114579-A2.
                                        24 - JUN - 1,997;
22-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF57140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF57140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ŝ
```

King IC, Clairmont CA;

Bermudes DG,

```
The invention relates to delivery of an agent which can be therapeutic or prophylactic. The method involves administering a composition comprising an attendated gram-negative bacterium (ABB) containing a bacteriophage genome which has been modified to encode for a gene product of interest under control of a eukaryotic promoter or as a fusion protein with a bacteriophage capsid protein. The method is useful for delivering an agent to a subject, for inhibiting solid tumour growth or reducing tumour volume, in breast, prostate, cervical, uterine, lung, ovarian, testicular, thyroid, renal, bladder, pancreatic, stomach, liver or colon cancers and in astrocytome, gliome, mesothellome, and melanome. The present sequence represents a primer used for generating a OmpA-8L-interleukin (IL)-2 gene fusion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAV56530-V56636 are primers used in the amplification of novel feline syttokine proteins. FLAPP40 and FLAPP35. This protein can be used in the production of a FLAPP35/FLAPP40 heterodimor which can potentiate the cytotoxic activity of feline cytotoxic T lymphocyte cells. Such proteins
Delivering a therapeutic agent to a subject for treating tumors, by adminiscering an attenuated bacterial vector comprising a bacteriophage encoding a gene of interest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cytokine; feline; FLAPp40: FLAPp35; heterodimer; cytotoxic; treatment; T lymphocyte cell; autoimmune disease; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel feline cytokine protein · useful for treating feline auto:immune diseases, e.g. those caused by feline herpes virus or feline calcivirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Maeda H, Tokiyoshi S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53 GGATICAGGGGTTCCAGCGTTCCTGAAAATGATCGATTGG 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 13.34; Score 16; DB 22; Best Local Similarity 62.5%; Pred. No. 3.9e+04; Matches 25; Conservative 0; Mismatches 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 42 BP; 11 A; 7 C; 10 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (KAGA ) CHEMO-SERO-THERAPEUTIC RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fujiyasu T, Imagawa Y, Imamura T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 5; Page 61; 94pp; Japanese.
                                                                                              Example; Page 45: 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAV56632 standard; DNA; 44 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96JP-0165249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Feline FLAF cONA primer #3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-042118/04
```

õ 5

```
The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amplases, amploid proteins, andiopoletin, apploasis related proteins, cadherin, cyclin, polymerase, oncogenes, latones, colony stimulating actors, complement related to fistones, kinases, colony stimulating actors, complement related proteins cycochicomes, kinases, sytochicomes, kinases, thosesins, cytochicomes, kinases, proteins cytochicomes, kinases, and thiosenserases the present sequence is cone such oligonuclocided the prevention, diagnosts and the peptides encoded by them may be used in the prevention, diagnosts and the proteins ilsted above. Disorders that may be prevented, diagnosed and/or treated include chown in the prevention of the proteins as autoimmuse diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, consensor, intiammation, cencer (e.g. cancers of the bladder, healn, breast, colon and kidney, concer characters), diseases of the nervous system and an infection of pathogenic
amyloid protein: angiopoletin; apoptosis related protein; cadherin; cyclin; polymerase, oncogene histoner kinasa; colony stimulating factor; complement related protein; cycorhrome; kinesin; cytokine; interferon; interferon; interferon; interferon; multifactorial disease; autoimmune disease; inflammation; multifactorial disease; sutoimmune disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immunosuppressive: immunostimulatory; antiinflammatory; cytostatic; neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; anyloidetiu; apoptosis related protein; cadherin; cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cycohrome; kinase; colony stimulating factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 13.3%: Score 16: DB 22: Length 50 1 Similarity 62.5%; Pred. No. 4.1e-0.9. Indels 52: Conservative 0: Mismatches 15: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43 CACTCCAGAGGGATTCAGGGGTTCCAGGGTTCCTGAAAT 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 50 BP; 9 A; 11 C; 15 G; 15 T; 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1: Page 2077; 4143pp: English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human SNP oligonucleotide #4465.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAL31258 standard; DNA; 50 BP
                                                                                                                                                                                                                                                                                                                                                                    28-DEC-1959; 99US-0173419.
                                                                                                                                                                                                                                                                                                                    28-DEC-2000: 2000WO-US35498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-JAN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Shimkets RA, Leach M;
                                                                                                                                                                                                                                                                                                                                                                                                                                        (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI: 2001-465210/50.
                                                                                                                                                                                                                        MO200147944-A2.
                                                                                                                                                                               Homo saptens.
                                                                                                                                                                                                                                                                        05-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAL31258:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 75
     ેં
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OXEXBX333333
                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunosuppressive: immunostimulatory; antlinflammatory; cytostatic; neuroprotective; antimicrobial: gene therapy; vaccine; amylase; cancer;
are used for treatment of feline autoimmune diseases e.g. as caused by feline herpes virus or feline calcivirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Probe 643 hybridises to FRNA of Salmonella, but not to E.coli or or other Enterobacter strains. Used to detect Salmonella in food and clinical samplea. TRNA is abundant in cells and appears not to be laterally transferred between contemporary organisms.
                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Detection of Salmonella - using nucleic acid fragment capable of hybridising to Salmonella RNA and not to that of Escherichia coli.
                                                                                                                                                                            ö
                                                                                                                      Query Match 13.3%; Score 16; DB 19; Length 44; Best Local Similarity 62.5%; Pred. No. 3.94+04. Marches 25; Conservative 0; Mismatches 15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 13.3%; Score 16; DB 10: Length 45; Local Similarity 62.5%; Pred. No. 44.04, 46.0%; Pred. So. Sconservative 0; Mismatches 15; Indels res 55; Conservative 0; Mismatches 15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         66 CCAGCGTTCCTGAAATGATGATTGGCTTCCATAGCTGC 105
                                                                                                                                                                                                                  32 CTCATTATCCCCACTCCAGAGGATTCAGGGCTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 CCTCCTTCCACAACACCAATTATTGGCGTCGTTAACTGC 42
                                                                                                                                                                                                                                                Sequence 44 BP: 16 A: 7 C: 11 G: 10 T; 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 45 BP; 11 A; 17 C; 5 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Probe 643; Salmonella; rRNA; pattern 1; assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe 643, hybridising to Salmonella rRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lane DJ, Rashtchian A, Parodos K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure, flg 5-2; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human SNP oligonucleotide #2426.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (INTE ) INTEGRATED GENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAL29218 standard; DNA; 50 BP.
                                                                                                                                                                                                                                                                                                                                                                                     AAN90164 standard; DNA; 45 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88WO-0504266.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87US-0127484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24-JAN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-1989 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1989-192705/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-NOV-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-DEC-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                W08905359-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JUN-1989.
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAN90164;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAL29218;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 74
AAL29218/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                            RESULT 73
```

ò 8

0; Gaps

```
28-DEC-1999; 99US-0173419.
27-DEC-2000; 2000US-0173419.
                                                                                                                                                   28-DEC-2000; 2000WO-US35498
                                                                  WC200147944-A2.
                          Homo sapiers
                                                                                                             05-JUL-2031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amylases, amyloid proteins, angloodetin, apoptosis related proteins, calted to amylases, amyloid proteins, angloodetin, apoptosis related proteins, calted proteins, and proteins, and proteins, and proteins, and proteins, and proteins, interferons, interleavings, cytokines, cytokines, interferons, interleavings, cytokines, constant and thioesterases. The present sequence is one such oligonucleotide. The oligonucleotides and the perties encoded by them may be used in the prevention, disponsis and treatment of disposes associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, disponsed and/or treated include multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus extythromatosus and Grave's diseases, inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, contains and contains and an infection of pathogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic; neuroprofective; antimicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; andiopoietin; apoptosis related protein; cadherin; cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinase; colony stimulating factor; interfeukh; G-protein cytochrome; kinesin; cytokine; interferon; interfeukh; G-protein coupled receptor; thioesterase; inflammation; neurous system disease; autoimmune disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, jautoimmune diseases and infections -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
interleukin; G-protein coupled receptor; thioesterase; inflammation; multifactorial disease; autoimmune disease; infection; nervous system disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 68.8%; Pred. No. 4.1e+04;
Matches 22: Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 50 BP; 9 A; 19 C; 16 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCCCCACTCCAGAGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCCCAATCCAGTGGGCTCCCAGGCCACCTGC 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1, Page 2670; 4143pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human SNP oligonucleotide #5257.
                                                                                                                                                                                                                                                          28-DEC-1999; 99US-0173419.
27-DEC-2000; 2000US-0173419.
                                                                                                                                                                                                                 28-DEC-2000: 2000MO-US35498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAL32049 standard; DNA; 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-JAN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                     Shimkets RA, Leach M;
                                                                                                                                                                                                                                                                                                                        (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-465210/50.
                                                                                                                                   MO200147944-A2.
                                                                                          Homo sapiens.
                                                                                                                                                                           05-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              organisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAL32049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAL32049
```

a

õ

MAKE WEEK DXDXDX

```
The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amylases, amyloid proteins, anglopoletin, apoptosis related proteins, cadherin, cyclin, polymerase, anglopoletin, apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement related proteins, cytochromes, kinesins, cytokines, interferons, interlewishins, cone such oligonucleotide. The oligonucleotides and treatment of by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed babve. Disorders that may be prevented, dispansed and/or treated include multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythromatchus and Grave's diseases, inflammation, cancer (e.g. cancers of the bladder, breast, colon and kidney, concerned the protein of pathogenic contents).
                                                                                                                                                                                                                Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; single nucleotide polymorphism; SNP; genome; gene therapy; protein therapy; vaccine; probe; diagnostic assay; detection; quantitation; restorative therapy; polymorphic; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human silent SMP containing nucleic acid SEQ:5586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Match 13.3%; Score 16; DB 22; Local Similarity 68.8%; Pred. No. 4.1e+04; nes 22; Consorvative 0; Mismatches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 50 BP; 14 A; 9 C; 18 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      77 GAAAATGATCGATTGGCTTCCATAGCTGCTGA 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GAAAATGATIGATGGGGAACCTGGAGA 33
                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 2900; 4143pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAI78645 standard; DNA; 50 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-NOV-2000; 2000MO-US32758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-NOV-2001 (first entry)
                                                                       Shimkets RA, Leach M;
(CURA-) CURAGEN CORP.
                                                                                                                                         WPI; 2001-465210/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200140521-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          organisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAI78645;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 77
AAI78645/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
```

```
WPI; 1989-048232/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W09923116-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-SEP-1998;
03-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-KAY-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX58157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX58157
                                                                                                                                                                                                                                                                                                                                                                                                                         合
    *****************
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AX731060 to AA179867 represent isolated human polymorphic polynucleotide sequences (1), which contain single nucleotide polymorphisms (SNPS).

AAM53114 to AAM53129 represent peptides related to human polymorphic polymorphic and in varcine production (1) and the polymorphic polymorphic polymorphic production. (1) and the polymorphic production (2) and the polymorphic production (1) and the polymorphic polymorphic production (2) and the polymorphic applies in samples.

A milbodies may also be used as diagnostic expression and activity. The antibodies may also be used as diagnostic appression and activity. The antibodies may also be used as diagnostic appression and activity. The antibodies may also be used as diagnostic appears for detecting the presence of polymorphic polymorphic applic appears for detecting the presence of polymorphic polymorphic application of an samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                       Polymorphic nucleic acid sequences, useful in genetic testing and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Multiplex sequencing: DNA sequencing; Maxam-Gilbert; Sanger; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Match 13.3%; Score 16: DB 22: Length 50: Local Similarity 62.5%; Pred. No. 4.1e+04: es 25; Conservative 0; Mismatches 15: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 CATAGTGACCTCCTAACCCACACCTCATTATCCCCACTC 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 50 BP; 9 A; 12 C; 16 G; 13 T; 0 other;
                                                                                                                                                                                                                                                  Claim 1; Page 2219; 2653pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tag sequence of a multiplex vector.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Church GM, Kieffer-Higgins S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAN92541 standard; DNA; 27 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88EP-0307391.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        87US-0084623.
                     30-NOV-1999; 99US-0168138.
29-NCV-2000; 2000US-0726173.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-OCT-2002 (updated)
20-JUN-1990 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (HARD ) HARVARD COLLEGE.
                                                                                                                   Shimkets RA, Leach M;
                                                                           (CURA-) CURAGEN CORP.
                                                                                                                                                      WPI; 2001-356160/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-AUG-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-AUG-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-FEB-1989.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EP303459-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAN92541;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
```

ò g 

```
This sequence represents a PCR primer used in the construction of a cade-fusion polypeptide.

The invention relates to cade-fusion polypeptide nucleic acid constructs, which are used to transform cells to produce systems for identifying compounds which modulate interactions between protein sequences. The cade-fusion polypeptides comprise a periplasmic domain, a transmembrane domain and a Cade transcriptional regulatory domain. Cells transformed with nucleic acid encoding the fusion protein and a cadeA reporter construct can be used for identifying compounds which modulate a specific protein interaction such as modulation of interactions between protein reprotein theraction such as modulation of interactions between protein receptors involved in receptor interactions; e.g. dimerisation. Such methods can be used for identifying ligands for orphan receptors.
                                                                                                                                                                                                                                                                    Tag is applied to DNA to be sequenced and after random fragmentation, DNA will have tag sequence on one end and identifiable (Maxam and Gilbert or Sanger) bases at the other, allowing sequencing. The significantly increases the speed at which the sequencing can be performed. (Updated on 03-0CT-2002 to add missing OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CadC; fusion protein; erythropoletin receptor dimerisation domain; protein-protein interaction; periplasmic domain; transmembrane domain; CadC transcriptional regulatory domain; receptor interaction; ligand identification; orphan receptor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Caps
Rapid DNA sequencing .
using multiplex vectors provided with a DNA sequence having a
cloning site, at least one tag sequence with opt. removable sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 13.2%; Score 15.8; DB 10; Length 27; Best Local Similarity 74.1%; Pred. No. 3.9e-04; Matches 20; Conservative 0; Mismatches 7; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Primer catl(+) for CadC-fusion protein construction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New CadC-fusion polypeptide nucleic acid constructs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 27 BP: 8 A: 12 C: 0 G: 7 T: 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 CCCTCCTAACCCACACCTCATTATCCC 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SMAL-) SMALL MOLECULE THERAPEUTICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 CCTTCCTAAACCACACTCCATTTAACC 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example: Page 68: 123pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hsing W, Menzel R, Taggart PA:
                                                                                                                                                                                    Example 2: Fig 3; 16pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX58157 standard: DNA: 31 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98US-0149922.
97US-0064058.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98WO-US23307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-JUL-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI: 1999-313305/26.
```

ö

```
Primer: PCR; amplify; polymerase chain reaction; murine leukaemia virus; chloramphenicol acetyl transferase; CAT; pLXSn-cat; retroviral vector; decxyribonucleotide triphosphate; transduction efficiency; backbone; s9.
                                                                                                                                           Probe CAT 03, binds to nucleotides 518-550.
                                                                                                                                                                                                                                                                                                                                                                    (UYJE-) UNIV JEFFERSON THOMAS.
                                                         AAT36269 standard; DNA; 33 BP
                                                                                                                                                                                                                                                                                                                                                                                                Pomerantz RJ,
                                                                                                                                                                                                                                                                                                               08-FEB-1996;
                                                                                                                                                                                                                                                                                                                                         08-FEB-1995;
                                                                                                               15-APR-1997
                                                                                                                                                                                                                                                                                    15-AUG-1996.
                                                                                                                                                                                                                            Synthetic.
                                                                                     AAT36269;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                RESULT 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV51211,
                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel substantially purified sociase transamidase (1) from a Gram-positive bacterium, catalyzing a covalent cross-linking of the carboxyl terminus of a protein having a sorting signal comprising of the carboxyl terminus of a protein having a sorting signal comprising a LPX.3X_4G motif where sorting involves cleavage between the fourth and fifth residues of the motif. The products of the invention have antibacterial activity and can be used in a vaccine. The enzyme is useful in the treatment and detection of Gram positive bacterial infections, especially immunocompromized patterts having Mycobacterium infections. (1) is useful for screening for expression of a cloned polypeptide. The transformed host colls are useful for the production of substantially purified sortase-transamidase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
The system is extremely sensitive in that background is low and the magnitude of signal background is quite robust, such that even minor modulations in protein-protein interactions are readily detectable.
                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                  Sortase transamidase, Gram-positive bacterium; covalent cross-link; peptidoglycan; antibacterial; vaccine; treatment; detection; bacterial infection; primer: srtA; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A substantially purified sortase-transamidase from a Gram-positive bacterium for use in the treatment and detection of Gram-positive bacterial infections .
                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13.2%; Score 15.8; DB 21; Length 31; 74.1%; Pred. No. 4.1e-04; tive 0: Mismatches 7; Indels (
                                                                                  Length 31;
                                                                                                               7: Indels
                                                                                  Query Match 13.2%; Score 15.8; DB 20; Best Local Similarity 74.1%; Pred. No. 4.1e+04; Matches 20; Conservative 0; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Liu G, Ton-That H;
                                                       Sequence 31 BP; 11 A; 6 C; 10 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 31 BP; 10 A; 6 C; 6 G; 9 T; 0 other;
                                                                                                                                       S. aureus OS2 srtA PCR primer orf6C-dT-B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 3; Page 61; 126pp; English.
                                                                                                                                                                                                                                       AAC65624 standard; DNA; 31 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Schneewind O, Mazmanian S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-APR-2000; 2000WO-US10198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0292437
                                                                                                                                                                                                                                                                                            16-FEB-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (REGC ) UNIV CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                            Staphylococcus aureus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-665197/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local (Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200062804 - A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-OCT-2000.
                                                                                                                                                                                                                                                                   AAC65624;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                             RESULT 80
                                                                                                                                                                                                                         AAC65624
   88888
                                                                                                                                          õ
                                                                                                                                                                   a
```

96WO-US01958. 95US-0385446

(first entry)

```
ö
                                                                                                                                                                                                                                                                                                           This sequence represents a P32 labelled probe which was used in the isolation of the chloramphenical acetyl transferase (CAT) gene. The isolated sequence was cloned into a plasmid. e.g. pLXSn-cat containing the CAT gene in a murine leukaemia vitus backbone, and used to test the method of the invention. The method comprises incubating retroviral vectors with deoxyribonuclectide triphosphates before transduction to improve transduction efficiency. Incubation with deoxyribonucleotide triphosphates allows the vector to complete reverse transcription of the RNA genome, producing double stranded meteroduplex viruses which have higher infectivity, and are therefore more effective vectors. The need for virion envelope permeabilisation and preparation of very high titre virus stock is eliminated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polymorphic marker; allele-specific; primer; probe; amplification;
                                                                                                                        Increasing transduction efficiency of retroviral vectors - by pre:incubation with deoxy:nucleotide tri:phosphate(s), for use in gene therapy or protein prodn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 13.2%; Score 15.8; DB 17; Length 33; Local Similarity 74.1%; Pred, No. 4.2e+04; es 20; Conservative 0; Mismatches 7; Indels es
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 33 BP; 9 A; 7 C; 7 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Maize polymorphic marker S10G4/G6-1 DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            43 CACTCCAGAGGGATTCAGGGGTTCCAG 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 6; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV51211 standard; DNA; 41 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-JAN-1999 (first entry)
Zhang H;
                                                              WPI: 1996-384449/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV51211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     XXEXEXEX S
```

AAATGATCGATTGGCTTCCATAGCTGC 105 AAAGGATCCTTTGACTTCTGTAGCTAC 27

õ 윱

```
Oligonucleotides AAX$2216.532 represent PCR primers and probes used to isolate and amplify cobh encoding secreted and transmenbrane human proteins (see AAX$2213.74 and AAX13344-403). The CDKA sequences are obtained from CDKA libraries, prepared from feetal lung. detail user and fetal intentions, feetal brain, fetal luver and fetal retina. The encoded polypeptides have specific uses based on their homology to known polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated with the preservation and mointenance of gastrointestinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated human genes and polypeptides used in, e.g. treatment of gastrointestinal ulceration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chen J. Goddard A. Gurney AL, Pennica D, Wood WI, Yuan J:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 46: Page 154; 320pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US - 006355 0
97US - 0063435 6
97US - 0063435 9
97US - 006373 0
97US - 006373 8
97US - 0064215 9
97US - 0064215 9
97US - 0064215 9
97US - 0064187 0
                                                         970S-0059113
970S-0059115
970S-0059115
970S-0059119
970S-0059120
970S-0059120
970S-0059184
970S-005956
970S-005956
970S-005966
970S-005966
970S-005966
970S-005966
                                                                                                                                                                                                                                                                                                                                                         9705-0063128
9705-0063129
9705-0063327
9705-0063541.
9705-0063542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9705-0066770.
9705-0066511.
9705-0066453.
               98WO-US19330
                                            97US-0066840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1959-229533/19.
                                                         17.5EP-1997
17.5EP-1997
17.5EP-1997
17.5EP-1997
17.5EP-1997
17.5EP-1997
18.5EP-1997
18.5EP-1997
18.5EP-1997
                                                                                                                                                                                                                  117-007-1997
24-007-1997
24-007-1997
24-007-1997
24-007-1997
24-007-1997
24-007-1997
24-007-1997
24-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
28-007-1997
               16-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-NOV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-NOV-1
 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This DNA sequence is a region of a Zea mays genome which contains a polymorphic marker. This sequence can be used in the construction of allele-specific primers and probes for amplification or hybridisation e.g. to determine common or disparate ancestry between 2 or more plants, to monitor the genetic contribution of an ancestral plant. Or trace the progeny of proprietary plants, in certification of a phybrid plant or to identify the progeny of a back-crossed plant with an ancestral plant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 13.2%; Score 15.8; DB 19; Length 41; Local Similarity 89.5%; Pred. No. 4.5e-04; Conservative 0; Mismatches 2; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Secreted protein; transmembrane protein; human; enterocolitis; colinger-Eblison syndroge; gastrointeatinal ulceration; congenital microvillus atrophy; skin disease; cell growth; abnormal keratinocyte differentiation; psoriasis; epithelial cencer; psyrianon; adisease; Alse enerope hy; flubromobulin; dermal scarring; Usher Syndrome; Arrophia areata; anti-thrombotic; wound healing; tissue repeir; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                        Brassica species allele-specific oligonucleotide probes and primers - useful for plant breeding
hybridisation; plant; hybrid certification; genetic contribution; progeny; back-cross; hybrid; ancestry; maire; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe used to isolate a cDNA clone encoding PRO346.
                                                                                                                                                                                                                                                                                                                                                Landry BS, Lemieux B, Murigneux A, Sapolsky RJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 41 BP; 14 A; 7 C; 15 G; 5 T; 0 other;
                                                                                                                       /replace "t" /note "polymorphism"
                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88 ATTGGCTTCCATAGCTGCT 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 48; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             35 ATTGCCTTCCGTAGCTGCT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX52480 standard; DNA; 45 BP.
                                                                                                                                                                                                                                      97WO-US21782.
                                                                                                                                                                                                                                                                  970S-0813507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-JUN-1999 (first entry)
                                                                                                            /*tag- a
                                                                                                                                                                                                                                                                                                                   (AFFY-) AFFYMETRIX INC.
                                                                                                                                                                                                                                                                                                                                                                             WPI: 1998-333252/29.
                                                                                                                                                                                                                                                                  07-MAR-1997;
02-DEC-1996;
                                                                                                                                                                        WO9824796-A1.
                                                                                                                                                                                                                                      01-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W09914328-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-1999.
                                                                                                                                                                                                     11-JUN-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                              Zea mays.
                                                                                          variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX52480;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 83
```

Š 윱 

```
mucosa and the repair of acute and chronic mucosal lesions (e.g. caterococitis, 2011inger-Ellison syndrome, gastrointestinal ulccration and conquential microvillus atrophy), skin diseases associated with and conquential microvillus atrophy), skin diseases associated with abnormal keratinocyte differentiation (e.g. psociasis, epithelial cancers to the standard standard of the vulva and glichmas), potentic effects on cell growth and development, diseases related to growth or survival of nerve cells including Parkinson's disease, Alzheimer's disease, Alz, neuropathies or cancer, PROSSS can be used as for fibromodulin, e.g. for reducing dermal scarring. PROSAS can be used as a categet for anti-tumor drungs. PROSSS may be used in the treatment of Usher Syndrome or Atrophia areata; PROSSS may be used as an anti-thrombotic agent; PROSSP polypeptides and portions may have therapeutic applications in wound healing and tissue repair; PROSST can be used for treating problems of the kidney, uterus, endometrium, blood vessels, or related to the kidney.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human, PRO: dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant; antiparkinsonion; vasorropic; antiasthmatic; antirheumatic; cancer; antiarthritic; antiinfertility; antiinferbetic; antiviral; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ischaemia; inflammation; PCR primer; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Botstein D, Desnoyers L, Eaton DL, Ferrara N; Fong S, Gao W, Gerber H, Gertlsen ME, Goddard A; Grimaldt CJ, Gurney AL, Hillan KJ, Kljavin LJ; n J, Paoni NF, Roy MA, Stewart TA, Tumas D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ..
..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 74.1%; Pred. No. 4.7e+04;
Matches 20; Conservative 0; Mismatches 7; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human PRO polypeptide gene oligonucleotide OLI2692.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 45 BP; 8 A; 11 C; 15 G; 11 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fong S, Gao W,
Grimaldi CJ, Gur
an J, Paoni NF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99WO-US30911.
99WO-US30999.
99WO-US00219.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0145698.
99US-0146222.
99WO-US20594.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0143048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US21090
99WO-US21547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99WO-US23089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-US28214
99WO-US28313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US30095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF72638 standard; DNA; 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-FEB-2000; 2000WO-US04414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-APR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pan J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ashkenazi AJ,
Filvaroff E, F
Godowski PJ, G
Mather JP, Pan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200104311-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-JUL-1999;
26-JUL-1999;
28-JUL-1999;
08-SEP-1999;
13-SEP-1999;
15-SEP-1999;
15-SEP-1999;
05-OCT-1999;
30-NOV-1999;
16-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF72638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF72638,

XX

AAF72

AAF73

XX

AAF73

AAAF73

AAF73

AAF73

AAF73

AAF73

AAF73

AAF73

AAF73

AAF73

AAA
          ç
```

```
The present sequence is an oligonucleotide used in the isolation of one of sixty one nucleic acids encoding novel secreted and transmembrane PRO polypeptides are useful for treating skin diseases (e.g. partials); cancers (e.g. lung squamous cell carcinoma); gastrointestinal disorders (e.g. lung squamous cell carcinoma); diseases (e.g. Alzhehmer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. eneconary ischaemia atherosclerosis), inflammatory disorders (e.g. asthma. rhebmarcol arthritis, multiple sclerosis), inflammatory disorders (e.g. and diabetes and retinal disorders such as retinitis pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization probes, and in chromosome and
                                                                   Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. psorlasis), cancers (e.g. lung squamous cell carcinoma) and neurodegenerative diseases (e.g. hizhelmer's disease)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human: ss; PRO; antiinflammatory; ophthalmological; vasotropic; retinal cell injury; ocular disease; retinitis pigmentosa; probe; macular degeneration; retinal detachment; retinal tear; retinopathy; retinal degenerative disease; macular hole; degenerative myopia; acute retinal necrosis syndrome; traumatic chorioretinopathy; Purtscher's retinopathy; ocdema; ischaemic condition; retinal vision occlusion; collagen vacular disease; thrombocytopaenic purpura; uvellis; retinal vasculitis; Eales disease; systemic lupus exythematosus; environmental trauma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Match 13.24; Score 15.8; DB 22; Length 45; Local Similarity 74.14; Pred. No. 4.7e+04; nes 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 45 BP; 8 A; 11 C; 15 G; 11 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human PRO346 hybridisation probe OL2692.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CACCICATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                        Example 46; Page 192; 393pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99WO-US20944.
99WO-US21090.
99WO-US28114.
99WO-US28313.
200WO-US08301.
200WO-US08301.
200WO-US08305.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-JUL-2000; 2000WO-US20710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABK28585 standard; DNA; 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-APR-2002 (first entry)
Williams PM, Wood WI;
                                 WPI: 2001-081051/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      W0200109327-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                gene mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13 SEP-1999;
15 SEP-1999;
29-NOV-1999;
30-NOV-1999;
01-DEC-1999;
05-JAN-2000;
06-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK28585;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 85
ABK28585/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
```

```
AA265634 to AA269578 represent human bialielic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AA26959 to AA271440 represent amplification primers for the bialielic markers. The bialielic markers of the invention have a variety of uses; they can be used for high density mapping of the human genome, and in complex association studies and happing of the human genome, and in complex association studies and happing of the human genome, and in complex association studies and happing of the human genome, and in complex association studies and persent of the invention can also be useful a quents and methods of the invention can also pharmaceutical agents and diagnostic methods, as well as the effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel biallelic markers used to construct a high density disequilibrium map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treatment.
N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                              Location/Qualifiers
replace(24.T)
/*tag
/*tadard_name- "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human genome: biallelic marker; high density disequilibrium map;
genomic map; haplotype; phenciype; polymcyphic base; genotyping;
haplotyping; hybridisation; identification; characterisation;
diagnosis; single nucleotide polymorphism; SNP; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             / Match 13.2%: Score 15.8; DB.21; Length 47; Local Similarity 65.7%; Pred. No. 4.8e+04; hes 23; Conservative 0; Mismatches 12; Indels 0
   diagnosis; single nucleotide polymorphism; SNP; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human map-related biallelic marker SEO ID NO:2317.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15 ACCCTCCIAACCCACACCTCATTATCCCCACTCCA 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 ACCGTCATCATCCTCACCTCCCCCCCCACA 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 47 BP; 8 A; 26 C; 1 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cohen D, Blumenfeld M, Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 537; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ67970/c
ID AAZ67970 standard: DNA; 47 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0082614.
98US-0109732.
                                                                                                                                                                                                                                                                                                                                                                                     99WO-1B00822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-013257/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                                                                                            21-APR-1998;
23-NOV-1998;
                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                     21-APR-1999;
                                                                                                                                                                                                                                                                  W09954500-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo saptens.
                                                                                                                                                                                                                                                                                                                         28-OCT-1999.
                                                                                                                                                variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to promoting the survival of retinal cells, or delaying or preventing retinal cell injury or death, by contecting the retinal cells with the polyspecial such as PRO175, PRO205, PRO205,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Promoting survival of retinal cells, or delaying or preventing retinal cell injury or death, by contacting retinal cells with PR0175, 220, 215, 243, 306, 346, 322, 536, 943, 840, 828, 826, 1068 or PR01132 polypeptide -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      h 13.2%; Score 15.8; DB 24; Length 45;
Similarity 74.1%; Pred. No. 4.7e+04.
20; Conservative 0; Mishatches 7; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human genome: biallelic marker; high density disequilibrium map;
genomic map; haplotype; phenotype; polymorphic base; genotyping;
haplotyping; hybridisation; identification; characterisation;
                                                                                                                                                                                                                                                                                                Ashkenazi AJ, Baker KP, Goddard A, Godowski PJ, Gurney AL;
Kijavin IJ, Lafleur H, Hark HR, Hersters SA, Pitti RH;
Watanabe CK, Wood WI:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human map-related biallelic marker SEQ ID NO:1438.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 45 BP; 8 A; 11 C; 15 G; 11 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 86; 152pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA267091 standard; DNA; 47 BP.
                                                                                    02-MAR-2000; 2000MO-USUSB41.
15-MAR-2000; 2000MO-USUSB84.
30-MAR-2000; 2000MO-USUSB84.
17-MAY-2000; 2000MO-USL370S.
18-FEB-2000; 2000MO-USO4341,
22-FEB-2000; 2000MO-USO4414,
24-FEB-2000; 2000MO-USO5004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-SEP-2001 (first entry)
                                                                                                                                                                                                                                        (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-130120/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAZ67091;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 86
```

ö

0; Gaps

ô

```
Detection; spacer; 23S rDNA; SS rDNA; probe; primer; phylogenetic group; enterobacterium; clinical diagnosis; food contamination; ss.
                                                                                                                                                                                                                                                                                                                                                                       AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to
                                                                                                                                                                                                                                                                                           Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
/*tag- a
/standard_name- "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 13.2%; Score 15.8; DB 21;
Local Similarity 65.7%; Pred, No. 4.8e+04;
les 23; Conservativo 0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bacterial 23S/5S RNA detecting primer SEQ ID 517.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23 AACCCACACCTCATTATCCCCACTCCAGAGGGATT 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          46 AACCCAGTCTCCTGATTCCCACACCTGTTCT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 47 BP; 14 A; 8 C; 18 G; 7 T; 0 other;
                                                                                                                                                                                                                               Cohen D, Blumenfeld M, Chumakov I;
                                                                                                                                                                                                                                                                                                                                            Claim 3; Page 927; 2745pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAH50322 standard; DNA; 47 BP
                                                                                                              99WO-IB0C822
                                                                                                                                             98US-0082614
98US-0109732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99DE-1045916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99DE-1045916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Streptomyces ambifaciens
                                                                                                                                                                                                                                                                                                               map of the human genome
                                                                                                                                                                                                                                                              WPI; 2000-013267/01
                                                                                                                                                                                              (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DE19945916-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24 - SEP - 1999;
                                               W09954500-A2
                                                                                                             21-APR-1999;
                                                                                                                                             21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-AUG-2001
                                                                               28-0CI-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH50322;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAH50322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of
                                                                                                                                                                                                                                                                                                                                       Novel biallelic markers used to construct a high density disequilibrium map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3056, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human genome: biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype: golymorphic base; genotyping; haplotyping; protidisation; identification; characterisation; diagnosis; single nucleotide polymorphism; SNP; ds.
                                                 /'tag- a
/standard_name- 'single nucleotide polymorphism'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human map-related biallelic marker SEQ ID NO:3265.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      h 13.2%; Score 15.8; DB 21; Similarity 74.1%; Pred. No. 4.8e+04; 20; Conservative 0; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 47 BP; 10 A; 18 C; 7 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGGATTCAGGGGTTCCAGCGTTCCTGA 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Blumenfeld M, Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                Location/Qualifiers
replace(24,T)
                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; Page 724; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ68911 standard; DNA; 47 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          replace(24,C)
                                                                                                                                                               99WO-IB00822.
                                                                                                                                                                                                98US-0082614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                               WPI; 2000-013267/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
Best Local Similarity
                                                                                                                                                                                                                                                 (GEST ) GENSET.
                                                                                                                                                                                            21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                W09954500-A2
                                                                                                                                                               21-APR-1999;
                                                                                                                                28-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Key |
variation
                  Key
variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ68911;
                                                                                                                                                                                                                                                                              Cohen D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 88
     THE SON EXE EXE EXE SON EXE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
```

Caps

```
The invention relates to a PCR-based method of differentiating between different varieties of rice. In particular, a single giain of polished or cooked rice is used in the method. When rice DNA is subjected to techniques such as RAPD (random amplification of cooked rice is used in the method. When rice DNA is objanophic DNA), different varieties of rice produce different characteristic patterns of variously sized fragments (detected as bands on an electrophoresis gel). The method of the invention uses sets of PCR primers specific for the 5' and 3' ends of fragments designated Si3.

M2CG, M1J, BI, MKAB, JG, BIB, MZF, TB, FG, GiB, BJ and AJ to amplify cree genomic DNA. The amplified fragments are visualised via gell celectrophoresis. The presence of absence of particular amplified fragments in a sample (the banding pattern) enables one variety of rice to be distinguished from another. The method of the invention is replicated from an electrophoresis in represent fragment specific PCR primers used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13.2%: Score 15.8; DB 22; Length 50;
74.1%; Pred. No. 4.9e+04;
tive 0; Mismatches 7; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human immunodeficiency virus; HIV Type 1; Tat protein; plasmid:
cargo molecules; intracellular delivery; fusion protein;
therapeutic; prophylactic; diagnostic; transport polypeptide;
human papillomavirus; £2 repressor protein; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Barsoum JG, Fawell SE, Frankel A, Pabo C, Pepinsky RB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 50 BP; 10 A; 12 C; 17 G; 11 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
Chimeric - Human Papillomavirus 16.
Chimeric - Rovine Papillomavirus Type 1
Chimeric - Human Immunodeficlency Virus Type 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 CCATAGTGACCCTCCTAACCCACACCT 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28 CAAGGGTCATCCTTGTAACCCACACCT 2
Differentiation of varieties of rice.
                                                  Disclosure: Page 20: 25pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Plasmid ptT-E2.123 PCR primer EA21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAT89777 standard: DNA: 27 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91US-0636662.
92US-0934375.
93WO-USO7833.
93US-0158015.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             89US-0454450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94US-0235403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-MAR-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity 74.11
es 20: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                              method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (PEPI/) PEPINSKY R B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BARS/) BARSOUM J G.
(FAWE/) FAWELL S E.
(FRAN/) FRANKEL A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21 - DEC - 1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PABO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US5674980-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-APR-1994:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-0CT-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT89777;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 91
AAI89777
     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                         This invention describes a novel nucleic acid molecule (1), useful as a combination of at least two nucleic acids (11) for detecting bacteria. The invention also describes (1) a combination of at least two nucleic acids (11) for detecting to bacteria or phylogenetic groups of bacteria, particularly enterobacteria; (2) a kit containing (1) or the combination of (11); (3) detecting the sample with (1) or the combination of (11); (3) detecting the bacteria (particularly enterobacteria; (1) a sample with (1) or the combination of (11) and precisit of the combination of (11) as primers. The method is and (4) amplifying (4) bacterial but from many different taxonomic of used to detect and identify bacteria, for clinical lagnosis and for detecting contamination of food. (1) can detect bacteria at various detecting contamination of food. (1) can detect bacteria at various contamination of food (1) can detect bacteria at various genera or species). The method exploits the fact that the 235 and 55 FDNA creations, and the intermediate transcribed spacer. contain some sequences that are highly conserved and others that are highly variable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                   New nucleic acid primers and probes, useful for bacterial detection, in 
cinical diagnosts and detecting food contamination, comprises 23S and 
5S robs sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rice; variety identification; characterisation; differentiation; and patent and patent stylo frequent; randos amplification of polymorphic DNA; amplification; single grain sample; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rice genomic fragment B7-specific PCR primer B7F50, SEQ ID NO:44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Match 13.2%; Score 15.8; DB 22: Length 47: Local Similarity 65.7%; Pred. No. 4.8e+04; les 23; Conservative 0; Mismatches 12: Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          46 TCCAGAGGGATTCAGGGGTTCCAGCGTTCCTGAAA 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 47 BP; 9 A; 9 C; 15 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (NORQ ) NORINSUISANSHO SHOKUHIN SOGO.
(CESU/) ORSUBO K.
(YOGU/) YOGURA K.
(KANA/) KAMASAKI S.
                          (BIOT-) BIOTECON DIAGNOSTICS GMBH.
                                                                                                                                                                                                                                                                  Claim 22; Page 122; 140pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAH2S966/c
ID AAH2S966 standard; DNA; 50 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-JUL-2000; 2000JP-0226854.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-JUL-1999; 99JP-0211915.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-SEP-2001 (first entry)
                                                                       Grabowski R, Berghof K;
                                                                                                                       WPI; 2001-246133/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-360497/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JP2001095589-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oryza sativa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH25966;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 90
```

a

ò

```
94US-0235403.
89US-0454450.
91US-0636662.
93US-0934375.
93US-0158013.
95US-0450257.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         89US-0454450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (BARS/) BARSOUM J G.
(FAWE/) FAWELL S E.
(FRAN/) FRANKEL A.
(PABO/) PABO C.
(PEPI/) PEPINSKY R B.
(PEPI/) PEPINSKY R B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-APR-1994;
21-DEC-1989;
02-JAN-1991;
21-AUG-1992;
19-AUG-1993;
24-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-DEC-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US5652122-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT84579;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 93
AAT84579
                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                          This PCR primer is used with EA22 (AAT89778) to amplify a fragment of the EZ repressor protein using the plasmid pCC-EZ as a template. This fragment was ligated into Nocl Banil cleaved pCT8c. Primer EA21 introduced an NcoI site that added a methionine codon followed by an analyse [codon S adjacent to the coding region for the carboxy terminal 101 residues of BPV-I EZ. The plasmids used in this study can be used in the sandyst exeminal coloracy for the delivery of biologically active cases movel method for the delivery of biologically active cases molecules into the cytoplasm and nuclei of eukaryotic cells. The tat protein from immunodeficiency virus (e.g. HIV-1, HIV-2, SIV) is readily taken up into calls when present extracellularly and can be modified to covolently into link to cargo proteins e.g. the EZ repressor protein, producing a fusion link to cargo proteins e.g. the EZ repressor protein, producing a fusion core without the biological activity of the cargo molecule. This is applicable call the the biological activity of the cargo molecule. This is applicable small molecules and macromolecules e.g. proteins, nucleic acids and pusaccharides.
                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                Gaps
                                    Fusion proteins containing truncated HIV tat sequences - useful for
intracellular delivery of viral repressor proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chemical conjugate; transport polypeptide; tat protein: primer: delalvery; cytoplasm: cell nucleus; therapy; BPV-1; E2 repressor; prophylaxis; diagnosis; spurious transactivation; HIV-1; PCR: disulphide aggregation; human immunodeficiency virus type 1; ss.
                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                    / Match 13.0%; Score 15.6; DB 18; Length 27; Local |Similarity 81.8%; Pred. No. 4.6e+04; les 18; Conservative 0; Mismatches 4; Indels 0
                                                                                                                                                                                                                                                                                                              Sequence 27 BP; 8 A; 8 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primer EA21 for BPV-1 E2 repressor fragment.
                                                                      Example 13; Column 93; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                      GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                   GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      89US-0454450.
91US-0636662.
92US-0934375.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93WO-US07833.
93US-0158015.
95US-0450246.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    89US-0454450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94US-0235403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT88237 standard; DNA; 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-JAN-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bovine papilloma virus 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FAWELL S E. FRANKEL A. PRANKEL A. PRANKEL A. PABO C.
             WPI; 1997-502388/46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 - DEC - 1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-APR-1994;
21-DEC-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USS670617-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-JAN-1991
21-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-AUG-1:993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24 - NOV - 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAT88237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (FRWE/) | (FRAN/) | (PABO/) | (
                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BARS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
  ö
```

```
Heri Barsoum JG. Fawell SE, Frankel A. Pabo C. Pepinsky RB.

Her: 1997-479523/44.

Her: 1997-479523/44.

The Maying amino acids 40-57 of human immunodeficiency virus tat protein main an uncleic acid cargo moitety.

The Anique amino acids 40-57 of human immunodeficiency virus tat protein and nucleic acid cargo moitety.

Example 13. Columns 93-94: 77pp: English.

Example 13. Columns 93-94: 77pp: English a transport conjugates can be used to deliver cargo completed moitety complishing boving applicane virus 1 mmunodeficiency virus (HIV) tat protein. but not residues 22-36 moitety of the cargo moitety complishing boving applicane virus 1 mmunodeficiency virus (HIV) tat protein. The HIV tat protein is credity taken up into cells and nucleic of cells for the protein is credity taken up into cells and the cell of cells for the protein is credity prophylactic and disposatic applications. The HIV tat protein is credity taken up into cells and the cells in ocleus. The reduced size of the transport polypeptides minimises interference with the coff the absence of the cysteles rich region of the HIV tat protein.

W. Squence 27 BP: 8 A: 8 C: 7 G: 4 T: 0 other:

So sequence 27 BP: 8 A: 8 C: 7 G: 4 T: 0 other:

Anteles 18: Conservative 0: Mismatches 4: Indels 0: Gaps 1 (11111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 111
```

Page 45

```
ANY56597-V56610 are primers used in a method for the delivery of biologically active cargo molecules into the cytoplasm and nuclei of coils, for therapeutic, prophylactic or diagnostic purposes. This is accomplished by the presence of a small, basic section of the tat accomplished by the presence of a small, basic section of the tat accomplished by the presence of a small, basic section of the tat cransport protein from husen immunodefriciency virus (HVV) Type I. This is used as it is this protein which is observed to cause human cells in combination with a transport molety usually in the form of a fusion protein. The cargo molety is a human apalinomavities Ex repressor that cretains its biological activity after delivery into a target cell and where the transport molety is one of following HV tat protein fragments (i) as 1.21 and 18-72, (g) as 47-52, (d) as 38-62. The proteins allow delivery of specific peptides into cells at high concentrations due to use of existing transporters. Previous methods of delivery include Combardment and transforming, which only allow a fraction of the cell population to be infected and can additionally damage cells as they
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Delivering biologically active cargo molecules such as polypeptides, nucleic acids into cells by using transport polypeptides which comprise human Immunodeficiency vitus transactivator procein linked to cargo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human immunodeficiency virus; HIV-1; tat; therapeutic; toxin; enzyme; regulatory factor; prophylactic; extracellular fusion protein; drug; bovine papillomavirus-16; BPV-16; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4: Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bovine papillomavirus-16 E2 DNA fragment generating EA21 PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 13.0%; Score 15.6; DB 19; Length 27; Best Local Similarity 81.8%; Pred. No. 4.5e+04; Matches 18; Conservative 0; Mismatches 4; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Barsoum JG, Fawell SE, Pepinsky RB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 27 BP; 8 A; 8 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (WHED ) WHITEHEAD INST BIOMEDICAL RES. (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE. (BIOJ ) BIOGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 13; Column 93; 78pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD26641 standard: DNA: 27 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  89US-0454456.
92US-0934375.
93WO-US07833.
93US-0158015.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94US-0235403.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              51US-0636662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bovine papillomavirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-088872/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Frankel A. Pabo C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-JAN-1991;
21-DEC-1989;
21-AUG-1992;
19-AUG-1993;
24-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US6316003-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    molecules -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAD26641;
q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                              PCR primers EA11 (AAT84579) and EA22 (AAT84580) were used to amplify byovine papiliomavirus E2 repressor DNA from plasmid pc0-E2.
EA21 introduces an Ncol site that adds a Met codon followed by an Ala codon 5 to the coding region for the C-terminal 101 tersidues of BPV-1 E2. The PCR product was used in the preparation of chemically cross-linked rat-E2 conjugates. Wovel transport proteins comprise a fusion between HV tat protein, preferably region, and a cargo molecule. The transport region of the West work of the cargo molecule to relis in vivo or in vitro.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4: Indels 0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAT protein; cargo molecule; therapy; diagnosis; transport protein; fugion protein; human papillomavirus E2 repressor; target cell; primer; ss.
                                                                                                           New DNA constructs for transporting molecules to cells - encode a fusion protein comprising a modified HIV tat protein and a carboxy-tersinal cargo molety
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HIV tat derived transport fusion proteins - used to deliver blodgical active molecules eg. peptidde(s) or nucleic acids. specifically into cytoplasm or nuclei of cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 13.0%; Score 15.6; DB 18; Length 27; Best Local Similarity 81.8%; Pred. No. 466+04; Aatches 18; Conservative 0; Mismatches 4; Indels (
                 Barsoum JG, Fawell SE, Frankel A, Pabo C, Pepinsky RB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Barsoum JG, Fawell SE, Frankel A, Pabo C, Pepinsky RB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 27 BP; 8 A; 8 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 13; Column 93-94; 83pp; English.
                                                                                                                                                                                                        Example 13; Column 93; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 GAAGCCATGGTCACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAT-E2 conjugate primer EA-21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAV56609 standard; DNA; 27 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           940S-0235403.
89US-0454450.
91US-0636662.
93WO-US07833.
93US-0158015.
95US-0450236.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95US-0450236.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-NOV-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-505702/43.
                                                             WPI; 1997-392943/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BIOJ ) BIOGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-APR-1994;
21-DEC-1989;
02-JAN-1991;
19-AUG-1993;
24-NOV-1993;
25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAY-1995:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US$804604-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-SEP-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV56609;
```

合

ò

3

```
The invention relates to a method for delivering a biologically active cargo molecule of interest into a cell. The method comprises presenting to the method comprises presenting to the method comprises presenting conjugate consisting of a cargo molecty and a transport molecy linked conjugate consisting of a cargo molecty and a transport molecy having amino acids 49-75 of human immunodeficiency virus (HIV) transactivator (tet) protein and lacking amino acids 27-36 and 77-86 of HIV tat protein.

The method is useful for delivering a molecule of interest such as polypepitides, antigen, monoclonal antibody, single- or double-stranded nucleic acid, a therapeutic, prophylactic and diagnostic molecule to a cell in vitro or in vivo. The method delivers proteins or peptides, including regulatory factors, enzymes, drugs or toxins into the cytoplasm and cell, nucleus. The method is useful for diagnostic, prophylactic or therapeutic intracellular delivery of small and macro molecules. The present sequence is a PCR primer used for generating boxine papillomavirus-16 (BPV-16) E2 protein used in the exemplification of the cytoplasm.
                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genes and their products differentially expressed in T helpor cells · useful in diagnosis and treatment of immune disorders, e.g. multiple scienosis, asthma, lepromatous leprosy, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A forward primer (AAT38277) and reverse primer (AAT38278) were used to amplify DNA encoding the extracellular domain (but not the signal peptide) of the murine 103 gene product. The 103 gene (AAT38272) is differentially expressed in T helper TH2 cells. The PCR product was used to construct a plasmid encoding a fusion protein contg. the CD5 signal sequence, 103 extracellular domain
                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     I helper cell; TH cell; T-cell; T-lymphocyte; 103 gene: differențial expression; immune disorder; multiple sclerosis; asthma; lepromatous leprosy; diagnosis; therapy; primer; PCR; polymerașe chain reaction; IgGl; fusion protein; ss.
                                                                                                                                                                                                                                                                                                                                                                                       h; 13.0%; Score 15.6; DB 24; Length 27; Similarity 81.8%; Pred. No. 4.6e+04; 18; Conservative 0; Mismatches 4; Indels (
                                                                                                                                                                                                                                                                                                                                                      Sequence 27 BP; 8 A; 8 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 10; Page 163; 218pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Murine 103 gene forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MILL-) MILLENNIOM PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96WO-US02798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       95US-0487748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95US-0398633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT38277 standard; DNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-DEC-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MPI; 1996-433404/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #09627603-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-SEP-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Levinson DA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthet1c.
                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT38277
                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      %$$$$$$$$$$$$$$$$$$$$$$$$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iggl fusion protein.

Genes which are differentially expressed within and among T helper (TH) cells and TH cell subpopulations, e.g. TH0; TH1 and TH2 subpopulations, can be used diagnostically or as targets for therapeutic intervention. The polypeptides are useful for treating and diagnosing of immune disorders. sepecially I lymphocyte-related disorders. These disorders include chronic inflammatory diseases and disorders (e.g. Crohn's disease, reactive arthritis, Lyme disease, Hashimoto's thyroiditis or farave's disease), or atopic conditions (e.g. asthma and altergy, including allergic rhintis or food allergies). Also included are certain pathogen susceptibilities (e.g. leishmaniasis), and viral (e.g. HIV) or bacterial (e.g. tuberculosis or lepromatous leprosy) infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA51910-11 were used to amplify the cDNA encoding extracellular domain of the murine 103 gene. The amplified fragment was used to construct an
                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       I helper cell; differential expression; 200 gene; imaunomodulator; anti-trifammatory; anti-arthritic; antibeterial; imaunosuppressive; thyromimetic; anti-trhyrodi; anti-arthritic; anti-trhyrodi; anti-arthritic; anti-allergic; antiviral; protozoacide: lymphocyte; modulator; gene therapy; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated human 200 gene products or polypeptides, useful for treating and diagnosing immune disorders, especially T helper
and human 1gG3 heavy chain Fc region. This was expressed in COS transfectants. The fusion proteins facilitate solubility and/or expression, and can increase the blood half-life, of the 103 gene product, a TH2 cell-specific surface marker.
                                                                                                                                                              ö
                                                                                                                          Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Porward primer for murine gene 103 fragment amplification.
                                                                                                                                                              Indels
                                                                                                                        13.0%; Score 15.6; DB 17; 70.0%; Pred. No. 4.9e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 31 BP; 5 A; 8 C; 12 G; 6 T: 0 other;
                                                                                       Sequence 31 BP; 5 A; 8 C; 12 G; 6 T; 0 other;
                                                                                                                                                            0; Mismatches
                                                                                                                                                                                               42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                   Example; Column 89; 107pp; English.
                                                                                                                                                                                                                                                                                                                             BP
                                                                                                               Query Match
Best Local Similarity 70.0%;
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lymphocyte-related disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96US-0609583.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97US-0829525.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95US-0487748.
                                                                                                                                                                                                                                                                                                                             AAA51910 standard; DNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-464385/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-1996;
03-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6084083-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Levinson DA;
                                                                                                                                                                                                                                                                                                                                                                                                    31-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                  AAA51910;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus sp.
                                                                                                                                                                                                                                                                                                           AAA51910,
    0 2 0 0 0 2 0
                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                 셤
```

13.0%; Score 15.6; DB 21; Length 31;

Query Match

0. Gaps

å

```
The invention relates to methods and compositions for treatment and diagnosis of immune disorders, sepecially T lymphocyte related disorders. The methods and compositions of the present invention particles. The methods and compositions of the present invention particles are strained and compositions and/or activity of 103 gene. This gene is alternatively referred as $72. The and Fit-1 and is differentially expressed in Theler ("ymphocyte 2 (THZ) cells. Antibodies specific for 103 gene are useful for the treatment and prevention of immune disorders in humans, preferably THZ related disorders. Such as astribacies. Inhumans, preferably THZ related disorders such as antibodies. Thours, antisense oligonosic of 103 gene such as antibodies. Thours, antisense oligonosic of immune disorders such as crohn's disease, arthritis, insulin dependent diabetes, multiple sciences; thanhumoto's thyrciditis, Grave's disease, graft rejection, contect dermatitis, postiasis, allergic rhinitis, conjunctivitis, graft versus bost disease, glomerular nephritis, sarcoidosis, cosinophilia, system. Tupus erythematosus, scleroderma and helminthic (e.g. tuberculosis and lepromatous leprosa). Primer used to amplify a fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      103 gene: immune disordor: T helper lymphocyte 2 related disorder: TTA2, ST22, TI; Elt.1; therapy: asthama; alletay; 152. IL-4; antivital; immunoglobulin E mediated condition; interleukin-4 mediated condition; crown's disease; arthritis; insulin-dependent diabetes; antihelminthic: multiple sclerois; Hassimoto's thyrolditis; Grave's disease; contact dermattis; psortasis, allergic rhinitis; conjunctivitis; glomerular nephritis; systemic lugus erythematosus; eosinophilis; neuroprotective; ophthalmological; antibacterial; immunosuppressive; sarcoloosis; scloroderms; mutine; PCR primer; sa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New 103 gane products and immunospecific antibodies, useful for the dagnosis and treatment of T helper lymphocyte 2 (like) related immune disorders e.g. asthma. allergy, immunoglobulin E and interleukin-4 mediated conditions.
Best Local Similarity 70.0%; Pred. No. 4.9e+04;
Matches 21; Conservative 0; Mismatches 9; Indels
                                                                              42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                           5' primer, to amplify murine 103 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Page 110; 197pp; English.
                                                                                                                                                                                                                                        AAD03380/c
ID AAD03380 standard; DNA: 31 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MILL-) MILLENNIUM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-SEP-1999; 99US-0155862.
28-APR-2000; 2000US-0560639.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-SEP-2000: 2000WO-US26555.
                                                                                                                                                                                                                                                                                                                                                                              13-JUN-2001 (lirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Leiby KR, Kingsbury GA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-211462/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200121641-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-MAR-2001.
                                                                                                                                                                                                                                                                                                                          AAD03380:
                                                                                                                                                                                                                 RESULT 99
                                                                                 ò
                                                                                                                               g
                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is that of the forward primer (reverse primer given in AA170134) used in the PCR amplification of a DNA fragment conding the extracellular demain of the murine 201 gene (see AA170157). The primers were designed to create a 5' Kpil site and a 5' Manis it in the amplified fragment to facilitate insertion into plasmid pc05-c04-1961. The PCR product was used in the construction of a fusion comprising the CDS signal sequence, 103 gene product extracellular domain and the human 1961 heavy chain for region. The murine 103 gene is preferentially expressed in the TH2 cell subpopulation, so not of a series of genes identified in the invention as being differentially expressed within and among TH cells and TH cell subpopulations. Such genes can be used diagnostically or as targets for therapeutic invention, especially in the tratment of TH cells ubpopulation. Telated disorders, such as multiple sclerosis, psoriasis and insulin-dependent diabetes; such a multiple sclerosis, psoriasis and insulin-dependent diabetes (contact defratitis, graft rejection, graft versus host disease, contact defratitis, graft rejection, graft versus host disease, sarcoldosis, asthma allergy, allergy, allergy cosinobilia, connuctivitis, grade (e.g. tuberculosis and lepromatous leprosy) infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detecting 200 gene expression in a sample, useful for treating and diagnosing immune disorders, especially T lymphocyte-related disorders, comprises detecting the presence of a 200 gene product or an RNA encoding the 200 gene product.
                             0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wouse; 200 gene; T helper; T lymphocyte; T cell; TH2: IgGl: differential expression: limune disorder; diagnosis; therapy;
Best Local Similarity 70.0%; Pred. No. 4.9e+04; Matches 21; Conservative 0: Mismatches 9: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 31 BP; 5 A; 8 C; 12 G; 6 T; 0 other;
                                                                              42 CCACTCCAGAGGATTCAGGGGTTCCAGCG 71
                                                                                                               Example 10; Column 91; 108pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse 103 gene forward PCR primer.
                                                                                                                                                                                                                                                                  AAI70273 standard; DNA; 31 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96US-0609583.
95US-0398633.
95US-0487748.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-0937399.
                                                                                                                                                                                                                                                                                                                                                                       07-JAN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (LEVI/) LEVINSON D A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI: 2001-647189/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAR-1996;
03-MAR-1995;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US6288218-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Levinson DA;
                                                                                                                                                                                                                                                                                                                          AA170273;
```

13.0%; Score 15.6; DB 22; Length 31;

Query Match

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence was used to amplify a DNA fragment encoding the extracellular domain of the murine 103 gene, a T helper 2 (TH2) enriched gene. The invention relates to an isolated nucleic acid molecule, which comprises the full length murine 200 gene or full length human 200 gene nucleotide sequence. The nucleic acids are useful for treating or diagnosting immune disorders, especially T helper lymphocyte-related disorders, e.g. inflammatory diseases (e.g. Crohn's disease), multiple sclerosis, Grave's disease, contact dermattis, psoriasis, asthma and allergies, or certain viral (e.g. HIV) or bacterial (e.g. tuberculosis)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New murthe or human 200 genes and their corresponding polypeptides, useful for treating or diagnosing immune disorders, especially Thelper lymphocyte-related disorders, e.g. inflammatory diseases or allergies
                                                                                                                                            Gaps
                                                                                                                                            ö
                                                                                                           Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Muxine: it helper cell; TH cell; TH1; TH2; immunomodulator: anti-bitlammatory; antiallergic: dermetological; antivixal; antibacterial; T helper lymphocyte modulator; gene therapy; TH2 enriched; 200 gene; immune disorder; inflammation; infection; 103 gene; PCR primer; ss.
encoding murine 103 gene product extracellular domain for construction of a vector encoding murine 103 gene-higgl fusion protein.
                                                                                                                                            Indels
                                                                                                     Ouery Match 13.04; Score 15.6; DB 22; Best Local Similarity 70.04; Pred. No. 4.9e+04; Matches 21; Conservative 0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                           Murine TH2-enriched 103 gene 5' oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 31 BP; 5 A; 8 C; 12 G; 6 T; 0 other;
                                                                      Sequence 31 BP; 5 A; 8 C; 12 G; 6 T; 0 other;
                                                                                                                                                                            42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                               Example; Column 90; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96us-0609583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95US-0398633
95US-0487748
                                                                                                                                                                                                                                                                                                 AAF82621 standard; DNA; 31
                                                                                                                                                                                                                                                                                                                                                                          18-JUN-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI: 2001-272703/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6204371-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-MAR-1995;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Levinson DA;
                                                                                                                                                                                                                                                                                                                                       AAF826211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus sp.
                                                                                                                                                                                                                                                                  RESULT 100
AAF82621/c
                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                             g
```

Gaps

ö

Query Match
Best Local Similarity 70.0%; Pred. No. 4.9e+04;
Matches 21; Conservative 0; Mismatches 9; Indels (

42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71

ò

```
1111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 31 CCACCCCAGGACGATTACTGGTACCCGGG 2
                              g
```

Search completed: June 17, 2003, 21:37:22 Job time : 226 secs

ਨ

```
STATE: Ucum...
COUNTRY: U.S.A.
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
HEDIUM TYPE: DISRECTE: 3.5 inch, 1.44 Mb storage
COMPUTER: IBM
OPERATION G SYSTEM FUNCHS 95/98
CURRENT APPLICATION DATA:
SPOURT OF FOR SOU IN ON: 6.391585-1999
INFORMATION FOR SOU ID ON: 6.391585-1999
SPOURCE CHARACTERISTICS:
CENCER: 36 Dase parks
TYPE: INCleic acid
STRANNEDNESS: single
TOPICOGY: Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 12.7%: Score 15.2; DB 4; Longth 36; Rest Local Similarity 63.9%; Pred: No. 8.8e+03; Matches 23; Conservative 0; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 56 TICAGGGTTCCAGCGTTCCTGAAAATGATCGATTG 91
                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY : SINGle

MOLECULE TYPE: Oligonucleotide

SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-424-6208-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Search completed: June 17, 2003, 21:38:30
Job time : 68 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Process for preparing recombinant proteins using highly efficient expression vector from Sacharomyces cerevisiae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Caps
                                                                                                                               Sequence 434, Application US/08961083
Fortent No. 615969
GENERAL INFORMATION:
APPLICANT: Chol et. al.
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
NUMBER OF INVENTION: 5. CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 12.7%; Score 15.2; DB 3; Length 35; Best Local Similarity 85.0%; Pred. No. 6.7-ev.3; Matches 17; Conservative 0; Marches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                      IIP: 10850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: NEXDSS version 6.2
SOFTHARE: ASCII Text
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: BACHMAN & LAPOINTE, P.C.
STREET: SUITE 1201, 900 Chapel Street
CIT: New Maven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT. HAMIL SYNTHETIC FIBER CO., LTD.
MON. Jae-Woong
MAC., Cheon-Soon
YAK, Cheon-Soon
YAK, Doo-Suk
LEE, Jee-Won
SEONG, Baik-Lin
                                                                                                                                                                                                                                                                                                     ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
                 8 CTTCAGTATCGGCGGAATTACAGCTGAG 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATORNEY AGENT INFORMATION:
NAME: BLOOKES, A. ANGERS
RECISTRATION WUMBER: 36,373
REFERENCE/DOCKET NUMBER: 76,373
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1309-8512
INFORMATION FOR SEC ID NO: 434:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 base pairs
TYPE: nucleic acid
STANNEDSNESS: double
150-000.0001: 11 near
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,083
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 6, Application US/09424620B
Patent No. 6391585
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22 TAACCCACACCTCATTATCC 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16 TARCCACTIATCATTATCC 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                         STATE: Maryland
COUNTRY: USA
                                                                                                          US-08-961-083-434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 100
US-09-424-620B-6
                                                                                        RESULT 99
```

a

õ

0: Gaps

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                Query Match 12.7%; Score 15.2; DB 4; Length 28; Best Local Similarity 85.0%; Pred. Mo. 8e+03; Matches 17; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 12.7%; Score 15.2; DB 2; Length 35; Best Local Similarity 71.4%; Pred. No. 8.7e+03; Matches 20; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 3, Application US/08727449

Patent No. 5932435

GENERAL INFORMATION:
APPLICANT: Atkins, David
APPLICANT: Arendu Greeg M.
APPLICANT: Izant, Jonathan G.
TITLE OF INVENTION: AN IN VIVO GENE EXPRESSION SYSTEM NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: New York
CITY: New York
COUNTRY: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
COMPUTER: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/727,449
FILITAG DATE: CTORER 18, 1997
FILITAG DATE: CTORER 18, 1997
FILITAG DATE: CTORER 18, 1997
APPLICATION NUMBER: PN5169/94 (AUSTRALIA)
APPLICATION NUMBER: PN5169/94 (AUSTRALIA)
APPLICATION NUMBER: 20,678
REGISTRATION NUMBER: 20,578
REFERENCE/DOCKET NUMBER: 1012/51992-PCT-US
TELEPHONE: (212) 278-0400
TELEPHONE: SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93 CTTCCATAGCTGCTGAATTGCAGTTTAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16 CCCTCCTAACCCACACCTCA 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 CCCTCCTATCCCACAGCACA 27
REFERENCE/DOCKET NUMBER: 9598
TELECOMUNICATION INFORMATION:
TELEFAN: 215-965-1284
TELEFAN: 215-965-1284
TELEFAN: 494
TELEFAN: 814-94
INFORMATION FOR SEQ ID NO: 565:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 Dase pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOCY: linear
MOLECULE TYPE: DNA (genomic)
US-08-943-731-565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 98
US-08-727-449-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: PROCKOP, DARWIN J.
APPLICANT: SPOTILA. LORETTA D.
APPLICANT: SEREDA, LORETTA D.
APPLICANT: SEREDA, LARISA
APPLICANT: LARSON, ANDRA W.
APPLICANT: LARSON, ANDRA W.
APPLICANT: COLIGE, ALANES
APPLICANT: COLIGE, ALANES
APPLICANT: COLIGE, ALANES
APPLICANT: ALA-KOKKO, LEENA, et al.
APPLICANT: ALA-KOKKO, LEENA, et al.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
TITLE OF INVENTION: CAMPAGE
NUMBER OF SEQUENCES: 666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 12.7%; Score 15.2; DB 2; Length 27; Best Local Similarity 58.3%; Pred. No. 7.9e+03; Matches 14; Conservative 6; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
STREET: FLR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: USA

ZIP: | 19103-7086

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATION SYSTEM: PC-DS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/943,731

FILING DATE: 03.0CT-1997

CLASSIFICATION: 435

PRIOR APPLICATION: DATA:
                                                                                                       ATTORNET/AGENT INFORMATION:
NAME: ROGALSKY) ESG.
REGISTRATION NUMBER: 38.601
REFERENCE/DOCKET NUMBER: 19603/400
TELECOMINUCIONATION INFORMATION:
TELEPHONE: (716) 263-1634
TELEPHONE: (716) 263-1634
TELEPHONE: (716) 263-1634
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 Dase pairs
TYPE: Inucleic acid
STRANDEDHESS: single
TOPOLGY: Linear
WOLLECULE TYPE: CDNA
US-08-558-823-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 08/212,322
FILING DATE: 14-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/803,628
FILING DATE: 03-DEC-1991
ATTORNEY/ACENT INFORMATION:
NAME: DOYLE LEARY Ph. D. KATHEYN
REGISTRATION NUMBER: 36,317
  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/558,823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31 CCTCATTATCCCCACTCCAGAGGG 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24 CAYAAYIWYCAYCAYTCTAGAGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          108-943-731-565
Sequence 565, Application US/08943731
Patent No. [6265157
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: | PHILADELPHIA
                                                                                         CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
```

```
Query Match 12.8%; Score 15.4; DB 4; Length 50; Best Local Similarity 9.1%; Pred No. 8.44(-0); Hetches 1; Indels Metches 16; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 96
See-559 623-11/C
Sequence 11. Application US/08558823
Sequence 11. Application US/08558823
Setent No. 587594
S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: The PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: All C's are 2'-NH2 cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTHER INFORMATION: All U's are 2'-NH2 uracil
US-08-687-421-184
                                                                                                                                                              CLASSIFICATION: 435

PRIOR APPLICATION NUMBER: 08/195.005

PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/219.012

FILING DATE: 28-APRIL-1993

APPLICATION NUMBER: 08/219.012

FILING DATE: 18-APRICH-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973.333

FILING DATE: 11-NOVEMBER-1992

PRIOR APPLICATION NUMBER: 07/714.131

FILING DATE: 11-NOVEMBER-1992

APPLICATION NUMBER: 07/714.131

FILING DATE: 11-NOVEMBER-1993

APPLICATION NUMBER: 07/714.131

FILING DATE: 11-NUME-1991

REGISTRATION NUMBER: 07/316.428

FILING DATE: 11-NUME-1991

REGISTRATION NUMBER: 07/316.428

FILING DATE: 11-NUME-1991

REGISTRATION NUMBER: 07/314.33

FILING DATE: 11-NUME-1991

REGISTRATION NUMBER: 07/314.33

FELERNA: 0303 793-333

INFORMATION FOR SEG 1D NO: 184:
SEQUENCE CHARACTER: 271.53
SOFTWARE: WordPerfect 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/697,421
FILING DATE: 08-MAY-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47 CCCTCCTTACCCACACC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COLEMENT CONTROL LENGTH: 50 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rochester
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U
ZIP: 14603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels 0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 12.8%; Score 15.4; D8 4; Length 50; Best Local Similarity 94.1%; Pred. No. 8.44-01; Matches 16; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-487-421-184/c
Sequence 1164, Application US/08687421
Fatent No. 6177557
GENERAL INFORMATION
PAPLICANT: Gold Larry
APPLICANT: Janjic, Nebojsa
APPLICANT: Janjic, Nebojsa
TITLE OF INVENTION: FIRENBLAST GROWTH FACTOR AND
TITLE OF INVENTION: FIRENBLAST GROWTH FACTOR AND
TITLE OF INVENTION: THROMBIN
WIMBER OF SEQUENCES: 445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB storage COMPUTER: TBM compatible OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: All C's are 2'-NH2 cytosine FEATORE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: All U's are 2'-NH2 uracil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PATON APPLICATION DATE

APPLICATION NOWBER: 07.536.428
FILLME DATE: 11-UWE-1990
ATONRET/AGENT INFORMATION:
NAME: BATTY J. SEARSON
REGISTRATION WIDBER: 33.215
REFERENCE/DOCKET NUMBER: NEXO//PCT
TELEPOMONICATION INFORMATION:
TELEPOMONICATION INFORMATION:
TELEPOMONICATION INFORMATION:
TELEPOMONICATION NO: 146:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDENESS: single
CURRENT APPLICATION DATA:
APPLICATION NUBER: US/08/687,421
FILING DATE: 08-MAY-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/195,005
FILING DATE: 10-FEBRIDAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                FILING DATE: 22-APRIL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/219/012
FILING DATE: 28-HARCH-1994
PRIOR APPLICATION DATA: 17/973,333
APPLICATION NUMBER: 07/973,333
FILING DATE: 11-NOVEMBER: 1992
PRIOR APPLICATION NUMBER: 07/14,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'OPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-687-421-146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
```

0; Gaps

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 12.8%; Score 15.4; DB 1; Length 50; Best Local Similarity 94.1%; Pred. No. 8.4e+03; Matches 16; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-687-421-146/c

Sequence 146, Application US/08687421
Patent No. 6177537
GENERAL INFORMATION:
APPLICANT: Janjic, Nebojsa
APPLICANT: Janjic, Nebojsa
TITLE OF INVENTION: HIGH-AFFINITY LIGANDS OF BASIC
TITLE OF INVENTION: PIBROBLAST GROWTH FACTOR AND
TITLE OF INVENTION: THROMBIN
UNMBER OF SEQUENCES: 445
                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MG storage
COMPUTER: IBM compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB storage COMPUTER: IBM compatible OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: All C's are 2' . NH2 cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COTHER INFORMATION: All U's are 2'-NH2 uracil
US-08-384-708a-184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 8400 E. Prentice Avenue, Suite 200 CITY: Englewood STATE: Colorado COUNTR: USA
                                                                                                       COMPUTER: IDEN COMPUTER:
COMPUTER: IDEN COMPUTER:
CORRATING SYSTER: MS-DOS
SOFTWARE: MOTOPERfect 5.1
CURRENT APPLICATION NATA:
APPLICATION NUMBER: US/08/384,708A
FILING DATE: US-FEBRUARY-1995
CLASSIFICATION: 536
FILING DATE: 10-FEBRUARY-1994
FILING DATE: 10-FEBRUARY-1994
FILING DATE: 10-JUNE-1994
FILING DATE: 10-JUNE-1991
APPLICATION NUMBER: 07/714,131
FILING DATE: 11-JUNE-1991
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1991
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1991
ATTORNEY/AGENT INFORMATION:
NAME: BATFY J. SWANDSON
TELECHMUNICATION INFORMATION:
TELECHONE (303) 793-3433
INFORMATION FOR SEQ ID NO: 184:
SEQUENCE CHARACTERISTICS:
LENGTH: SO base pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        47 CCCTCCTTACCCACACC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SYSTEM: MS-DOS
WordPerfect 6.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM MEDIUM TYPE: Disket
  COUNTRY: (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 184, Application US/08384708A
Sequence 184, Application US/08384708A
Sequence 184, Application US/08384708A
Sequence 184, Application US/08384708A
SERENT INFORMATION:
APPLICANT: Gold, Larry
APPLICANT: Janjic, Nebojsa
ITLE OF INVENTION: High-Affinity RNA Ligands of Basic
TITLE OF INVENTION: Fibroblast Growth Factors
NUMBER OF SEQUENCES: 227
CORRESPONDENCE ADDRESS:
STREET: SWANDON & Bratschun, L.L.C.
STREET: SWANDON & Prentice Avenue, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 12.8%; Score 15.4; DB 1; Length 50; Best Local Similarity 94.1%; Pred. No. 8.4e+03; Matches 16; Conservative 0; Mismatches 1; Indels
APPLICANT: Janjic, Nebojsa
TITLE OF INVENTION: High-Affinity RNA Ligands of Basic
TITLE OF INVENTION: Fibroblast Growth Factors
CORRESPONDENCE: 227
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MG storage COMPUTER: IM compatible COMPUTER: IM COMPATIBLE SYSTEM: MS-DOS SOFTWARE: WordPerfect 5.1
CURRENT | APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: All C's are 2'-NH2 cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: All U's are 2'-NH2 uracil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Swanson & Bratschun, L.L.C.
Syntem: 8400 E. Prentice Avenue, Suite 200
CITY: | Englewood
STATE: Colorado
                                                                                                                  ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: | Englewood
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/384,708A
FILING DATE: 02-FEBRUARY-1995
CLASSIFICATION: 536
PRIOR ARPLICATION DATA:
APPLICATION NUMBER: 08/195,005
FILING DATE: 10-FEBRUARY-1994
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION NUMBER: 07/5:6,428
FILING DATE: 11-JUNE-1990
ATTORIEV/ACET INPORMATION:
NAME: 05551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NEX07/D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: 33.215
REFERENCE/DOCKET NUMBER: 33.215
REFERENCE/DOCKET NUMBER: NEXOT
TELEPHONE: (303) 793-333
TELEFAX: (303) 793-333
INFORMATION FOR SEQ ID NO: 146:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         47, CCCTCCTTACCCACACC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16; CCCTCCTAACCCACACC 32
                                                                                                                                                                                           STATE: Colorado
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-384-708A-146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 93
```

ò

```
CERREAL INCURRENTION:
APPLICANT: Blumenfeld, Marta
APPLICANT: Blumenfeld, Marta
APPLICANT: Coboulelert, Lydie
APPLICANT: Cohon, Annick
1717LE OF INVENTION: BLALLELIC MARKERS DERIVED FROM GENONIC REGIONS CARPING
1717LE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
1717LE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
1717LE PERFENCE. GENEST: DOSICOP
1717LE OF INVENTION WIMBER: US 09/502,330
CURREAT APPLICATION WIMBER: US 09/502,330
PRIOR APPLICATION WIMBER: US 09/202,330
PRIOR FILING DATE: 1999-02-12
NUMBER OF SEX ID NOS: 1304
SCOTTANT ENTRY PARENT PRIOR APPLICATION WIMBER: US 06/119,917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match
12.8; Score 15.4; DB 4; Length 44;
Bent Local Similarity 65.74; Pred. No. 8e+03;
Matches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Overy Match 12.8%: Score 15.4; DB 4; Length 47; Best Local Similarity 66.7%; Pred. No. 8.2e+03; Matches 22; Conservative 0: Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: 12-558-305 : polymorphic base T or A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       52 GGGATTCAGGGGTTCCAGGGTTCCTGAAATGA 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29 CACCTCATTATCCCCACTCCAGAGGGATTCAGG 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 GGGATCCACGCGTCCATTCGTTTGTGAATATCA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 39 CCCTTCCCCATCCCCSTCCCAGAGGCACTCTGG 7
                                                                                                                                                                                                                                                             ANTI-SENSE: NO
RACAGENT TYPE: «Unknown»
ORIGINAL SOURCE:
SEQUENCE DESCRIPTION: SEO 1D NO: 24:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 92
US-08-384-708A.146/C
; Sequence 146, Application US/08384708A
; Parent, Mo. 563986
; GENERAL INFORMATION:
APPLICANT; Gold, Larry
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPPLICK: linear
NOLECULE TYPE: CDNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 870, Application US/09641638 Patent No. 6432648 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: allele
LOCATION: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 91
US-09-641-638-870/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-641-638-870
                                                                                                                                                                                                                                                                                                                                                                            US-09-638-202A-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 14, Application US/09638202A
Patent No. 6462189
GENERAL INFORMATION:
APPLICATT: Koiteda, Shohel
TITLE OF INVENTION: ANTIFICIAL ANTIBODY POLYPEPTIDES
NUMBER OF SEQUENCE: 118
CORRESPONDENCE ADDRESS:
ADDRESSE: Schwegman, Lundberg, Woessner & Kluth P.A.
STREET: 121 South Eighth Street, Ste. 1600
CITY: Minneapolis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 12.8%; Score 15.4; DB 5; Length 42; Best Local Stallarity 61.0%; Pred, No. 7.9e+03; Makches 25; Cooservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  58 CAGGGGTTCCAGCGTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CAGIGGTACCACGCCAGGTAGATGGTCAGTTGGCCAGCA 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MALLON LITE: UISRETCE
COMPUTER: IBH COMPETLE
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEO VERSION 2.0b
CURRENT APPLICATION NUMER: US/09/638,202A
FILING DATE: 11-ANG-2000
RICH APPLICATION NUMER: 09/096,749
FILING DATE: CURROWN
ATTORNEY/AGENT INFORMATION:
NAME: AND S. VIESGINS
REGISTRATION NUMBER: 37,748
REFREMENCYOCKET VUMBER: 109.034US1
TELECOMOUNICATION INFORMATION:
TELECOMOUNICATION INFORMATION:
TELECOMOUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                             FILING DATE: SUDDITICED INCLEDED.

CLASSIFICATION
PRIOR APPLICATION DATA:
APPLICATION WIMBER:
FILING DATE: NUMBER:
ATTORNEV/GENET INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 35.134
REFERENCE/COCKET NUMBER: 32500-262
TELEPHONE: 201-994-170
INFORMATION FOR SED. ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 42 BASE PAIRS
ITPE: NUCLEIC ACID
STRANDENDESS: SINGLE
STRANDENDESS: SINGLE
                                                                                                              COMPUTER REAGABLE FORM:
MEDIUM THER: 3.5 INCH DISKETTE
COMPUTER: TAN PS/2
OPERATUR SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION WARE: APPLICATION WARE: PCT/USS5/03323A
FILLING DATE: SUBMILLED HERWICK!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: LINEAR
HOLECULE TYPE: Oligonucleotide
PCT-US95-03323A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
       CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-638-202A-24
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: KUNSCH, ET AL.
TITLE OF INVENTION: Human B-Cell Translocation Genes-2 and 3
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
APPLICANT: Suzanne C. MacTough
APPLICANT: Anchony W. Shaw
APPLICANT: Anchony W. Shaw
TITLE OF INVENTION: INHIBITORS OF PRENYL-PROTEIN TRANSFERASE
FILE REFERENCE: 20605Y
CURRENT APPLICATION NUMBER: US/09/757,213
CURRENT FILING DATE: 2001-01-09
PRIOR APPLICATION NUMBER: 60/175,708
PRIOR PLICKG DATE: 2000-01-12
NUMBER OF SEQ ID NOS: 25
SOFTHARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Besince, Douglas C.
APPLICANT: Gallicchio, Steven N.
APPLICANT: Callicchio, Steven N.
APPLICANT: Zartman.
TITLE OF INVENTION: INHIBITORS OF PRENYL-PROTEIN TRANSFERASE
EILE REFERENCE: 20292Y
CURRENT FILING DATE: 2000-09-07
PRIOR PRILING DATE: 2000-09-07
PRIOR PLILING DATE: 1999-09
WINDRER OF SEQ ID NOS: 25
SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 42:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 12.8%; Score 15.4; DB 4; Best Local Similarity 66.7%; Pred. No. 7.9e+03; Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Artificial Nucleotide Sequence
US-09-757-213-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 12.8%; Score 15.4; DB 4; Best Local Similarity 66.7%; Pred. No. 7.9e+03; Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . OTHER INFORMATION: completely synthesized US-09-656-653-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 8, Application PC/TUS9503323A; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : Sequence 5, Application US/09656653
: Patent No. 6441017
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Merck & Co., Inc. APPLICANT: Bell, Ian M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCT-US95-03323A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    us-09-656-653-5
                                                                                                                                                                                                                                                           9 ON QI CGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SdeS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 6 Application US/09347673
Sequence 6 Application US/09347673
Patent No. 6410534
GENERAL INFORMATION:
APPLICANT METAL Bell, In M. APPLICANT Bell, In M. APPLICANT Bell, In M. APPLICANT Bell, In M. APPLICANT BENDE, DUGGAS C. APPLICANT HILLIAMS THEESA M. TITLE OF INVENTION: INHIBITORS OF PRENYL-PROTEIN TRANSFERASE FILE REFERENCE: 20236V
CURRENT APPLICATION NUMBER: US/09/347,673
CURRENT APPLICATION NUMBER: 66/091,596
EARLIER APPLICATION NUMBER: 66/091,596
EARLIER FILING DATE: 1998-07-02
NUMBER OF SEQ ID NOS: 25
SOFTHARE: FastSEQ for Windows Version 3.0
                   GENERAL INFORMATION:
APPLICANT: Merck 6 Co., Inc.
APPLICANT: Dinsmore. Christopher J.
APPLICANT: Busmore. Christopher J.
APPLICANT: Hutchinson, John H.
APPLICANT: Williams, Theresa M.
TITLE OF INVERTION: INHIBITORS OF PRENYL-PROTEIN TRANSFERASE.
FILE REPRENCE: 20040VP
CURRENT APPLICATION NUMBER: US/09/463,917
CURRENT APPLICATION NUMBER: 00/057,080
PRIOR FILING DATE: 1997-08-27
WHORE OF SEQ ID NOS: 21
SOFTBARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
: ORGANISM: Artificial Sequence
: FRATURE: OTHER INFORMATION: COMPLETELY synthesized nucleotide sequence
US-09-463-917-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match
12.8%; Score 15.4; DB 4; Length 42;
Best Local Similarity 66.7%; Pred. No. 7.9e+03;
Matches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      / Match 12.8%; Score 15.4; DB 4; Length 42; Local Similarity 66.7%; Pred. No. 7.9e+03; Nes 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: completely synthetic sequence US-09-347-673-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44 ACTCCAGAGGATTCAGGGGTTCCAGGGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 6, Application US/09757213
Patent No. 6413964
GENERAL INFORMATION:
APPLICANT: HERCK & CO., Inc.
APPLICANT: S. Jane deSolms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-347-673-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 87
US-09-757-213-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
```

```
Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL THE SECONDARY OF SECOND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match 12.8%: Score 15.4: DB 4: Length 42; Best Local Sumlarity 66.7%; Prod. No. 7.9e+03; Hatches 22; Conservative O: Mismatches 11; Indels O:
Sequence 5, Application US/09516756

Patent No. 6376495

GENERAL INCORMATION:
APPLICANT: Herck E Co. Inc.
APPLICANT: Herck E Co. Inc.
APPLICANT: Herck E Co. Inc.
APPLICANT: Hartman, George D.
APPLICANT: Salko. John T.
APPLICANT: Salko. John T.
APPLICANT: TUCKER, Thomas J.
APPLICANT: TUCKER, Thomas J.
APPLICANT: TUCKER, Thomas J.
APPLICANT: TUCKER, Thomas J.
APPLICANT: NUMBER: 0.909/516.756

CURRENT FILING DATE: 2008 W.
CURRENT FILING DATE: 2008 G.
ERRIER FILING DATE: 2000 30-01

EARLIER FILIKOTON NUMBER: 60/127,968

EARLIER FILIKOTON NUMBER: 60/127,132

EARLIER FILIKOTON NUMBER: 60/127,132

EARLIER FILIKOTON NUMBER: 60/127,132

WUMBER OF SOO ID NOS: 21

SOOTHWARE: FRSISED for WINDOWS Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 12.8%; Score 15.4; DB 4; Length 42: Best Local Similarity 6.7%; Pred. Mo. 7.94-01. Hatches 22: Conservative 0; Mismatches 11: Indels Matches 22: Conservative 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Synthetic Sense Nucleotide Sequence
US-09-828-061A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: completely synthetic sequence US-09-516-756-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     44 ACTCCAGAGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44 ACTCCAGAGGGATTCAGGCGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6 AGTCTAGAGTTAACCCGFGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : Sequence 5, Application US/09463917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 85
US-09-463-917-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 12.8%: Score 15.4; DB 4; Length 42: Best Local Similarity 66.7%; Prect No. 79+03; Marches 22: Conservative 0; Mismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery March
12.89: Score 15.4; DB 4; Length 42;
Best Local Similarity 66.74; Prech No. 7.99+03;
Marches 25; Conservative 0; Mismatches 11; Indels 0; Gaps
     APPLICANT: Lumma, William C. Jr.
APPLICANT: Sisko, John T.
APPLICANT: Sisko, John T.
APPLICANT: Stoker, Gerald E.
APPLICANT: Stoker, Gerald E.
APPLICANT: Stoker, Gerald E.
APPLICANT: Stoker, Gerald E.
APPLICANT: Tucker, Thomas J.
TITLE OF INVENTION: INHIBITIONS OF PRENYL-PROTEIN TRANSFERASE
CURRENT PELICANTON NUMBER: US/09/516,750
CURRENT PILION ONTE: 2009-03-03
EARLIER FILING DATE: 1000-03-03
EARLIER FILING DATE: 1099-03-03
EARLIER FILING DATE: 1999-03-03
EARLIER FILING DATE: 1999-03-03
EARLIER FILING DATE: 1099-03-03
EARLIER FILING DATE: 1099-03-03
EARLIER FILING DATE: 1099-03-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Substitute of Application US/09342577

Sequence 6. Application US/09342577

Patent No. 6158895

GENERAL HISPORATION

APPLICANT: March Co., Inc.

APPLICANT: Beslow Meville J.

APPLICANT: Beslow Beslow Substitute J.

APPLICANT: Clearone, Terrence H.

APPLICANT: Clearone, Terrence H.

APPLICANT: Olsamore, Christopher J.

APPLICANT: Olsamore, Christopher J.

APPLICANT: SOLEMER: Generald E.

TITLE OF INVENTION: TRANSFERASE

FILE REFERENCE: 20275Y

CURRENT APPLICATION UNDER: US/09/342,577

CURRENT FILING DATE: 1999-06-29

EARLIER APPLICATION WINDER: US/09/342,577

CURRENT FILING DATE: 1999-07-02

NUMBER OF SED ID NOSE: 25

SOFTHMER FILING DATE: 1998-07-02

NUMBER OF SED ID NOSE: 25

SOFTHMER FERENCE: AND NOSE: 25

SOFTHMER FERENCE: AND NOSE: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COTHER INFORMATION: completely synthetic sequence US-09-142-577-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . OTHER INFORMATION: completely synthetic sequence US-09-516-750-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-516-756-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

Gaps

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Werck & Co., Inc.
APPLICANT: Lumma, William C. Jr.
APPLICANT: Sisko, John t.
APPLICANT: Sisko, John t.
APPLICANT: Sisko, John t.
APPLICANT: Bergamen, Jeffrey M.
APPLICANT: Disserved M.
APPLICANT: Johnson Jeffrey M.

       APPLICANT: S. Jane deSolms
APPLICANT: Anthony W. Shaw
TITLE OF INVENTION: INHIBITORS OF PRENYL-PROTEIN TRANSFERASE
FILE REFERENCE: 20613
CURRENT APPLICATION NUMBER: US/09/757,218
CURRENT FILING DATE: 2001-01-09
PRIOR APPLICATION NUMBER: 60/2175,703
PRIOR FILING DATE: 2000-01-12
NUMBER OF SEQ ID NOS: 25
SOFTHARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 12.8%; Score 15.4; DB 4; Length 42; Best Local Similarity 66.7%; Pred. No. 7.9e+03; Matches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 12.8%; Score 15.4; DB 4; Best Local Similarity 66.7%; Pred. No. 7.9e+03; Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; OTHER INFORMATION: Artificial Nucleotide Sequence
US-09-757-218-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: completely synthetic sequence
US-09-516-757-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               44 ACTCCAGAGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 5, Application US/09516757; Patent No. 6355643; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 5, Application US/09516750; Patent No. 6358956; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : APPLICANT: Merck & Co., Inc. ; APPLICANT: Hartman, George D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-516-750-5
                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Lumma, William C. Jr.
APPLICANT: Lumma, William C. Jr.
APPLICANT: Saith, Anthony M.
APPLICANT: Sisto, John T.
ITLE OF INVERTION: INHIBITORS OF PRENYL-PROTEIN TRANSFERASE
FILE REFERENCE: 20315Y
CURRENT FILING DATE: 2000-03-01
CURRENT FILING DATE: 1998-03-01
EARLIER APPLICATION NUMBER: 66/122,970
EARLIER PILING DATE: 1998-03-01
EARLIER FILING DATE: 1999-03-01
SEALIER FILING DATE: 1999-03-01
NUMBER OF SEO ID NOS: 21
SUTHARE: FALLENG DATE: 1999-03-01
SEOTHARE: PASLED for Windows Version 4.0
SEO ID NO 5
LENDTH: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                              APPLICANT: Distance, Christopher J.
APPLICANT: Graham, Samuel L.
APPLICANT: Milliams, Theresa M.
TITLE CONTRIBUTION: PRENTL-PROTEIN TRANSFERASE INHIBITORS
FILE REPERENCE: 20488
CURRENT APPLICATION NUMBER: US/09/609,205
CURRENT FALING DATE: 2000-06-30
PRIOR PHOLICATION NUMBER: 60/145,331
PRIOR PHOLICATION NUMBER: 60/145,331
NUMBER OF SEQ ID NOS: 24
SOFTWARE: FastSEQ for Mindows Version 4.0
LENGTH: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Match 12.8%; Score 15.4; DB 4; Length 42; Local Similarity 66.7%; Pred. No. 7.9e+03; es 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match
12.8%: Score 15.4; DB 4;
Best Local Similarity 66.7%: Pred. No. 7.9e+03;
Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: completely synthetic sequence US-09-609-205-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: COMPLETELY SYNTHELIC SEQUENCE US-09-516-945-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44 ACTCCAGAGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  44 ACTCCAGAGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
GENERAL INFORMATION:
TTANT: Herck & Co., Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 6, Application US/09757218
Patent No. 6350755
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 5, Application US/09516945
Patent No. (6335343
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Merck & Co., Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-516-945-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 79
US-09-757-218-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
```

```
Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 12.8%; Score 15.4; DB 4; Length 42;
Best Local Similarity 66.74; Pred. No. 7.9e+63;
Matches 22; Conservative 0; Mismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Owery Match 12.8%; Score 15.4; DB 4; Length 42; Best Local Similarity 66.7%; Pred No. 7.59*03; Matches 22; Conservative D: Mismatches 11; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5. Application US/09426533
Sequence 5. Application US/09426533
GENERAL INCORMATION
GENERAL INCORMATION
GENERAL INCORMATION
TOTLE OF INVENTION. Inhibitors of Prenyl-Protein Transferase
FILE REFERENCE: 20289
CURRENT APPLICATION NUMBER: US/09/426,533
CURRENT APPLICATION NUMBER: 60/101,177
EARLIER APPLICATION NUMBER: 60/101,177
EARLIER PILIA DATE: 1999-10-26
SOTHARE: FASTSEQ for Windows Version 3:0
SOTHARE: PASTSEQ for Windows Version 3:0
                                                                                                                                                                                                                                                                                                                    APPLICATE GESOIRS, S. Jane
APPLICATE: GESOIRS, S. Jane
APPLICATE: Shark, Antonony M.
TITLE OF INVENTION: INHIHITONS OF PRENTL-PROTEIN
TITLE OF INVENTION: TRANSFERASC
CURRENT APPLICATION NUMBER: US/09/455,627
CURRENT FILING DATE: 1999-12-07
EARLIER APPLICATION NUMBER: US 60/111,621
EARLIER FILING DATE: 1999-12-08
NUMBER OF SEQ ID NOS: 21
NUMBER OF SEQ ID NOS: 21
SOCTHARE: FastSEO for Mindows Version 3.0
SEQ ID NOS: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44 ACTCCAGAGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                          6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44 ACTCCAGAGGATTCAGGGGTTCCAGCGTTCCT 76
                                              44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; OTHER INFORMATION: completely synthesized US-09-426-533-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: completely synthesized US-09-455-627-5
                                                                                                                                                                                                                                             : Sequence 5. Application US/09455627 : Patent No. 6316436 : GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : Sequence 6, Application US/09609205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                    RESULT 75
US-09-455-627-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-426-533-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0S-09-609-205-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                        6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 12.8%; Score 15.4; DB 4; Length 42;
Best Local Similarity 61.0%; Pred. No. 7.9e+03;
Matches 25; Conservative 0; Mismatches 16; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 12.8%; Score 15.4; DB 4; Length 42; Rest Local Similarity 6.7%; Pred No. 7.94-03; Merches 27; Conservative 0; Mismatches 11; Indels
CURRENT APPLICATION DATA:
APPLICATION NUBBER: US/09/221,844
FILING DATE: 29-DEC-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUBBER: US 08/718,738
FILING DATE: 19-SEP-1996
RIGH APPLICATION DATA:
APPLICATION NUBBER: US 08/463,382
FILING DATE: 05-3UN-1995
FILING DATE: 05-3UN-1995
FILING DATE: 05-3UN-1995
FILING DATE: 05-3UN-1995
FILING DATE: 17-3AR-1995
ATORNETATION NUMBER: US/05/03323
FILING DATE: 17-3AR-1995
ATORNETATION NUMBER: 148.0730004/EKS/RCM/SGW
FILING DATE: 17-360
FILING DATE: 17-360
FILING POR SEG ID NO: 8: SEGURACE CHARACTERISTICS:
LENGTH: 42 Dass Pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               58 CAGGGTTCCAGCGTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Squence 5. Application US/09456153
Fatent No. 6246755
GENERAL INFORMATION
APPLICANT deSolms. Same
APPLICANT General Salar Salar
APPLICANT Stave Anthony W.
APPLICANT Stockeroe, Ferrence M.
APPLICANT Stockeroe, Ferrence M.
APPLICANT Stockeroe, Ferrence M.
APPLICANT SCOKAEROE SOLUTION OF THE STORE OF INVENTION: TRANSFERASE
FILE REFERENCE: 20312Y
CURRENT APPLICATION NUMBER: US 60/111,416
EARLIER APPLICATION NUMBER: US 60/111,416
EARLIER APPLICATION NUMBER: US 60/111,416
EARLIER APPLICATION NUMBER: US 60/119,282
EARLIER FILING DATE: 1999-04-14
NUMBER OF SEQ ID NATE: 1999-04-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTHER INFORMATION: completely synthesized US-09-456-153-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-456-153-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-221-844-8
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: KUNSCH, CHARLES A
APPLICANT: CHOPRA, ARVIND
APPLICANT: CHOPRA, ARVIND
APPLICANT: ROSEN, CRAIG A
TITLE OF INVENTION: HUMAN B-CELL TRANSLOCATION GENES-2 AND 3
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
CITY: WASHINGTON
                                                                                                                                                                                                                                             12.8%; Score 15.4; DB 3; Length 42; 61.0%; Pred. No. 7.9e+03; tive 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 12.8%; Score 15.4; DB 4; Length 42; Best Local Similarity 66.7%; Pred. No. 7,9e+03; Matches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                     58 CAGGGGTTCCAGCGTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL 1/2

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICAMT: PEDICW, Mark W.

APPLICAMT: PEDICW, Mark W.

APPLICAMT: PEDICW, Mark W.

APPLICAMT: PEDICW, Mark W.

TITLE OF INVENTION: INHIBITORS OF PRENYL-PROTEIN

TITLE OF INVENTION: INHIBITORS

TURRENT FILING DATE: 1998-06-14

EARLIER FILING DATE: 1998-06-15

NUMBER OF SEO ID NOS: 21

SOFTWARE: FRELSCO FOR WINDOWS VEFSION 3.0

SEQ ID NO 5

LENGTH: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIF: 2005-3934
COUNTRY: USA
COMPUTER READABLE FORM:
WEDIOW TYPE: Floppy disk
COMPUTER: IRM PC compatible
COMPUTER: PR PC POSANS-NOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: completely synthesized US-09-332-769-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-221-844-8
; Sequence B, Application US/09221844
: Patent No. 625877
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
   LENGTH: 42 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                         Ouery Match
Best Local Similarity 61.09
Matches 25; Conservative
                                                                                                                                                                           US-08-718-738-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 8, Application US/08718738

Sequence 8, Application US/08718738

CENERAL INFORMATION:
CENERAL INFORMATION:
APPLICANT: KUNSCH, CHARLES A
APPLICANT: CHOPRA, ARVIND
APPLICANT: CHOPRA, ARVIND
APPLICANT: CHOPRA, CRAIC A
TITLE OF INVERTION: 18
CORRESPONDES: 18
CORRESPONDES: STERME, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1160 NEW YORK AVENUE, NW, SUITE 600
CITY: WASHINGTON
CITY: WASHINGTON
COUNTY: DC
CONTACT: DC
CONT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                            COMPUTER REACABLE FORM:
MEDIUM TYPES FORM:
MEDIUM TYPES FLOPPY disk
COMPUTER: THE PCOMPACTIBLE
COMPUTER: THE PCOMPACTIBLE
COMPUTER: THE PCOMPACTIBLE
COMPUTER: THE PCOMPACTIBLE
CURRENT PAPPLICATION DATA:
APPLICATION NUMBER: PCT/US91/07149
FILLIG DATE: 19910927
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COPERATING SYSTEM: PC COMS. O. Version #1.30
CURRENT |APPLICATION DATA:
APPLICATION NUMBER: US/08/718,738
FLING DATE: 18-SEP-1996
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
12.8%; Score 15.4; DB 5;
Best Local (Similarity 66.7%; Pred. No. 7.7e+03;
Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1488.0730003/EKS/KMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 444 SO. FLOWER STREET, SUITE 200 CITY: LOS ANGELES STATE: CALIFORNIA COUNTRY: UNITED STATES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCHREY AGENT INDORMATION:
NAME: CAPPELL, CATHRIN A.
REGISFRATION NUMBER: 31,815
REFERENCE/OCCKET NUMBER: P31 8882
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-9001
FELEPHONE: 619-535-9001
FELEPHONE: 619-535-901
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHRANCTERISTICS:
LENGTH: 39 base pairs
TYPE: NUCLEIC ACID
STRANGENESS: SINGLE
FCT-US91-07149-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K
REGISTRATION NUMBER: 36.688
REFERENCE/DOCKET NUMBER: 1488
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 20005-3934
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 71
US-08-718-738-8
```

õ

Ö

0: Gaps

```
12.8%; Score 15.4; DB 5; Length 39; Best Local Similarity 66.7%; Pred. No. 7.7ev3; Harches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                        Oucry Match 12.8%: Score 15.4; DB 4: Length 39: Best Local Smilarity 66.7%; Prod. No. 7.70+07.8 Astobe 22: Conservative 0: Hismatches 11: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCT-US91-07141-27
Sequence 27 - Application PC/TUS9107141
GENERAL INFORMATION:
APPLICANT: Huse, William A
APPLICANT: Huse, William SURFACE EXPRESSION LIBRARIES OF
TITLE OF INVENTION: SURFACE EXPRESSION LIBRARIES OF
TITLE OF INVENTION: RANDOMIZED PEPTIDES
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESS: A
ADDRESSEE: PretLy, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: OS Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 55, Application PC/TUS9107149
GENERAL INFORMATION: ULLIAM D.
TITLE OF INVENTION: SURFACE EXPRESSION LIBRARIES OF
TITLE OF INVENTION: SURFACE EXPRESSION LIBRARIES OF
TITLE OF INVENTION: TORKED TO SURFACE SU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/07141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: ALMARE, COMPEAL, CENTRY A MARE, COMPEAL, CENTRY A RECISTRATION WINBER: 13,815
REFERENCE/DOCKET NUNBER: P31 9072
RELEPAN: TELEPAN: (619) 535-9001
REPERFONE: (619) 535-9001
REPERFONE: (619) 535-9001
REPORMATION FOR SEQ ID NO: 275
SEQUENCE CHARACTERISTICS: LEGGIN: SEGUENCE CHARACTERISTICS: LEGGIN: STRANDE DATE TYPE: NUCLETC ACID STRANDE DESS: single TOPOLOXY: linear TOPOLOXY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: California
COUNTRY: United States
ZIP: 90071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19910927
                 LENGIH: 39 base pairs
                                                                       TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 70
PCT-US91-07149-55
                                                                                                                                                               ; TOPOLOGY:
US-08-367-685-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                       APPLICANT BATATAL Yannick
APPLICANT BATATAL Yannick
APPLICANT DATE: Francis
APPLICANT DATE: Francis
APPLICANT SCHALK, Michel
1717LE OF INVENTION: EXCOUNTS OF DATE SEQUENCES PERMITTING
1717LE OF INVENTION: EXCOUNTS OF DATE SECUENCES PERMITTING
1717LE OF INVENTION: EXPRESSION IN YEAST AND OBTAINED TRANSFORMED YEAST
1717LE OF INVENTION: EXPRESSION IN YEAST AND OBTAINED TRANSFORMED YEAST
1717LE OF INVENTION NUMBER: US/09/158,767
CURRENT PILLIAG DATE: 1998-09-13
SEARLIER FILLAG DATE: 1997-09-14
NUMBER OF SEQ ID NOS: 10
SEQUENCE: 1997-09-14
SEQ ID NOS: 20
SEQ I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouert Match 12.8%; Score 15.4; DB 4: Length 39; Best Local Similarity 66.7%; Preced No. 7.5+03; Matches 22; Conservative 0; Hismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 27, Application US/08367685
Patent No. 6258530
GEREAL INFORMATION:
APPLICANT: Huse, William D.
TITLE OF INVENTION: SURFACE EXPRESSION LIBRAKIES OF
TITLE OF INVENTION: SURFACE EXPRESSION LIBRAKIES OF
TITLE OF INVENTION: RANDOMIZED PEFFIIES
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: United States
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBH FC compatible
OPRENTING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  68 AGCCTTCTGAAATGATCGATTGGCTTCCATA 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 AGAATTCCAGTTAAGCCTCGAGTGCCTTGCAGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Gembell, cethryn A
REGISTRATION NUMBER: 31,315
REFERENCE/DOCKET NUMBER: P31 9072
TELECOMMUNICATION INFORMATION:
TELECHOME: (619) 535-9001
INFORMATION FOR SEQ 10 NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/07/767,436 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/110,494
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COTHER INFORMATION: Synthetic primer US-09-158-767-6
US-09-158-767-6
Sequence 6, Application US/09158767A
Patent No. 6180363
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 444 Sour...
CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-367-685-27
```

ö

0: Gaps

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
                                                                                                                                                                                                                                                                                                                     Length 39:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 39
                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 55. Application US/08470297A

Sequence 55. Application US/08470297A

GENERAL INFORMATION:
TITLE OF INVENTION:
TITLE OF INVENTION: HETEROMERIC RECEPTORS
TITLE OF INVENTION: HETEROMERIC RECEPTORS
WUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL & FLORES LLP
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
CITY: SAN DIEGO
STATE: CALLFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: CALIFORNIA
COUNTRY: UNITED STATES
21P: 9212
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: DATE: DC. COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PALENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,297A
FILING DATE: Unime 5, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match 12.8%; Score 15.4; DB 3; Best Local Similarity 66.7%; Pred. No. 7.7e+03; Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                  Query Match 12.8%; Score 15.4; DB 2; Best Local Similarity 66.7%; Pred. No. 7.7e+03; Matches 22; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                            80 AATGATGGGTTGGTTGGTGGTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
ATORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHRYN A.
REGISTRATION NUMBER: 31,815
REFERENCE/OCCKET NUMBER: P-IX 1611
TELEPHONE: 619-535-9001
TELEPHONE: 619-535-9001
NAME: CAMPBELL, CATHRYN A.
REGISTRATION NUMBER: 31.815
REFERENCE/DOCKET NUMBER: P31 8882
TELECOMMUNICATION INFORMATION:
TELEPAX: 619-535-9001
TELEPAX: 619-535-9001
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 39 base pairs
LENGTH: 39 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 619-535-8949
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGIH: 39 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                               ; TOPOLOGY: linear
US-08-349-131-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TOPOLOGY: linear
US-08-470-297A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-470-297A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 67
                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                r Match 12.8%; Score 15.4; DB 1; Length 39; Local Similarity 66.7%; Pred. No. 7.7e+03; es 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 55, Application US/08349131
Patent No. 5871934
GENERAL INFORMATION:
APPLICANT: HUSE, WILLIAM D.
TITLE OF INVENTION: SURFACE EXPRESSION LIBRARIES OF
TITLE OF INVENTION: HETEROMERIC RECEPTORS
NUMBER OF SEQUENCES: 75
CORRESPONDENCE ADDRESS:
ADDRESSEE: PRETIT'S SCHROEDER, BRUEGGEMANN & CLARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER REACH.

MEDIUM TYPE: Floppy disk
COMPUTER: IBN PC Compatible
COMPUTER: IBN PC Compatible
COMPUTER: IBN PC Compatible
COMPUTER: IBN PC COMPATIBLE
CONTAME: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/349,131
FILING DATE:
CLASSIFICATION NATA:
APPLICATION NUMBER: US/08/120,648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUURESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK STREET: 444 SO. FLOWER STREET, SUITE 200 CITY: LOS ANGELES STATE: CALIFORNIA
                                                                                                           ZIP: | 92122
COMPUTER REALABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTION NOBER: 05/09/440,787A
APPLICATION NOBER: 05/09/440,787A
FILING DAPE: 15-MAY-1995
    ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: 1 San Diego
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME; Campbell, Cathryn A.
REGISTRATION NUMBER: 31.315
REFERENCE/DOCKET NUMBER: P-IX 1586
TELECOHMUNICATION INPORMATION:
TELEPHONE: (619) 535-9001
TELEPHONE: (619) 535-904
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTR: 39 base pairs
TYPE: nucleic acid
STRANDENNESS: single
US-08-440-787A-27
                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/978,893
FILING DATE: 10-NOV-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/07/767,136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE CALIFORNIA
COUNTRY: UNITED STATES
ZIP: | 90071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 65 | US-08-349-131-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
```

ò

```
; OTHER INFORMATION: Designed primer based on aspartase gene sequence of Pseudomona; OTHER INFORMATION: fluorescens IFO 3081 strainD
US-09-249-338-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 64
US-08-40-787A-27
US-08-40-787A-27
Sequence 27. Application US/08440787A
PALENT NO. 5570434
I FILE OF INVENTION:
TILLE OF INVENTION:
TILLE OF INVENTION:
Secondary Conformation in Solution and Method of Making
TILLE OF INVENTION: Seme.
ITILLE OF INVENTION: Seme.
NUMBER OF SEQUENCES: 174
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0: Gaps
                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                         Ouery Match
12.84: Scorc 15.4: UB 4: Length 37;
Best Local Similarity 66.74: Pred. No. 7.5e+03.
Watches 21: Conservative 0: Mismatches 11: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12.8%; Score 15.4; DB 1; Length 39; 66.7%; Pred. No. 7.7e+03; Live 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 55, Application US/08464136
Parent No. 5696426
Parent No. 569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  80 AATGATCGATTGCCTTCCATAGCTGCTGAATTC 112
                                                                                                                                                                                                                                                                                                                                                                                       40 CCCCACTCCAGAGGGATTCAGGGGTTCCAGCGT 72
                                                                                                                                                                                                                                                                                                                                                                                                                                               1 CCCGCATCCTTAGGCCTTCAGCGACCAAGCGT 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:

FILING DATE:

CLASSIPICATION: 435

ATTORNEY AGENT INCRMATION:

NAME: CAMPRELL, CATHREW A.

REGISTRATION NUMBER: 931 8882

TELEPHONE 619-535-9001

TELEPHONE 619-535-9001

TELEPHONE 619-535-9001

TELEPHONE 619-535-9001

TELEPHONE 619-535-901

SEQUENCE CHARACTERISTICS:

LENGTH: 39 base pairs

"THE FORE CHARACTERISTICS:

LENGTH: 39 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
NEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 66.74 es 22: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    UNITED STATES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
us-08-464-136-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-464-136-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
           APPLICANT: Allison, Lori A.
APPLICANT: Carrer, Helaine
APPLICANT: Kaneveki, Ivan
APPLICANT: Kaneveki, Ivan
TITLE OF INVENTION: DNA CONSTRUCTS and Methods for Stably
TITLE OF INVENTION: Transforming Plastids of Multicellular Plants and
TITLE OF INVENTION: Expressing Recombinant Proteins Therein
CORRESPONDENCE AT
ADORESSEE: Dann, Dorfman, Herrell and Skillman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12.8%; Score 15.4; DB 4; Length 33; 76.0%; Pred, No. 7.2e+03; ative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Nippon Shokubai Co., Ltd.
APPLICANT: Nippon Shokubai Co., Ltd.
TITLE OF INVENTION: Method for Producing L-aspartic acid
FILE REFERENCE: PH-61.2
CURRENT FILLMS DATE: 1999-02-12
EABLIER APPLICATION NUMBER: US/09/249,338
EABLIER APPLICATION NUMBER: US 98/31809
EABLIER FILLMS DATE: 1998-2-13
NUMBER OF EXD ID NOS: 8
EXD ID NO 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Dann, Dorfman, Herrell and Skillman
STREET: 1601 Market Street Suite 720
CTYY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION WINBER: 08/189,256
FILING DATE:
PRIOR APPLICATION MUMBER: 08 07/518,763
APPLICATION NUMBER: 05 07/518,763
TELECOMUNICATION INFORMATION:
TELEPHONE: (215) 563-4100
TELEPHONE: (215) 563-4004
TYPE: NORTHERNEY
TYPE: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5 TGCCATAGTGACCCTCCTAACCCCAC 29 1 1111 1111 11111 1 11 9 TTCCATGGTGATCCTCCTATTCAAC 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/193,853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 6, Application US/09249338
; Patent No. 6214589
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match
Best Local Similarity 76.04
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lincar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-193-853-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-249-338-6
```

```
9 TICCATGGTGATCCTCCTATICAAC 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 TGCCATAGTGACCCTCCTAACCCAC 29
                                             Sequence 46, Application US/CB189256A patent No. 5877402 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Reed, Janet E. REGISTRATION NUMBER: 36,252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 563-4100
TELEFAX: (215) 563-404
INFORMATION FOR SEQ ID NO: 46
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 33 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-189-256A-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-193-853-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 31, Application US/09253368

Facent No. 6262246

GENERAL INFPERATION:
APPLICANT: Gerald, Christophe P.G.
APPLICANT: Jones, Kenneth A.
APPLICANT: Jones, Kenneth A.
APPLICANT: Bonini, James A.
CURRENT FILING DATE: 1994-02-22

EARLIER APPLICATION NUMBER: 09/161,113
EARLIER FILING DATE: 1998-09-25

NUMBER OF SEO ID NOS: 42

SOOTHARE: Patentin Ver. 2.0 - beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : OTHER INPORMATION: Description of Artificial Sequence: primer/probe US-09-255-368-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPENATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN RELEASE #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/380,190A
FILING DATE: 26-Aug-1999
CLESSIFFCATION: VONFOWN>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US98/03918
FILING DATE: 28-EBB-98
ATORNEY/ACENT INFORMATION:
RESERRICE/DOCKET NUMBER: 228.00010201
TELEPOWHUNICATION INFORMATION:
TELEPOWHUNICATION OF 37:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 63.2%; Pred. No. 7.1e+03;
Matches 24; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
12.8%; Score 15.4; DB 4; Length 26;
Best Local Similarity 76.0%; Pred. No. 6.6e+03;
Matches 19; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 ACCCACACCTCATTATCCCCACTCCAGAGGGATTCAGG 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : TOPOLOGY: linear

HOLECULE TYPE: DNA (genomic)

SEQUENCE DESCRIPTION: SEQ ID NO: 37:

US-09-380-190A-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16 CCCTCCTAACCCACACCTCATTATC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 49 base pairs | TYPE: nucleic acid | STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 59
US-09-255-368-31/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
ö
APPLICANT: Staub, Jeffrey
APPLICANT: Staub, Jeffrey
APPLICANT: Staub, Jeffrey
APPLICANT: Staub, Jeffrey
APPLICANT: Cabrenko, Oleg V.
APPLICANT: Alison, Loui A.
APPLICANT: Carrer, Helaine
APPLICANT: Carrer, Helaine
APPLICANT: Alison, Loui A.
APPLICANT: Alison, Loui
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA

ZIF: 19103-2307

COMPUTER READALE FORM:
WEDIOW TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIA RELEASE #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/189,256A
FILING DATE: 31-OAN-1994
CLASSIFICATION UNBER: US 08/111,398
FILING DATE: 25-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION UNBER: US 08/111,398
FILING DATE: 01-HAY-1990
RIGHTHON DATA:
APPLICATION UNBER: US 07/518,763
FILING DATE: 01-HAY-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Dann, Dorfman, Herrell and Skillman
STREET: 1601 Market Street Suite 720
CITY: Philadelphia
STATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 12.8%; Score 15.4; DB 2; Best Local Similarity 76.0%; Pred. No. 7.2e+03; Matches 19; Conservative 0; Hismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 46, Application US/09193853;
Patent No. 638168;
GEMERAL INFORMATION:
APPLICANT: Naliga, Pal
APPLICANT: Svab. Zora
APPLICANT: Staub, Jeffrey
APPLICANT: Zoubenko, Oleg V.
```

```
RESULT $8
US-09-380-390A-37/C
US-09-380-390A-37/C
Sequence 37, Application US/09380190A
SEQUENCE 31, Application US/09380190A
SEQUENCE 31, APPLICATION SELF-ASSEMBLING GENES, VECTORS AND USES
TITLE OF INVENTION SELF-ASSEMBLING GENES, VECTORS AND USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13.C%; Score 15.6; DB 1; Length 48; 58.7%; Pred. No. 7e+03; tive 0; Mismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AACCCAATACATGTAATAGTCACTGAAAGTGAATCCAGAGGTTACA 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER RADABLE FORM:
MEDIDH TIPE: Floppy disk
MEDIDH TIPE: Floppy disk
COMPOTER RADABLE FORM:
COMPOTER: BW PC competible
COMPOTER: BW PC competible
COMPOTER: BW PC competible
COMPOTER: Patentin Release 41:0, Version 41.25
CURRAIT APPLICATION DATE: 07:001/195
CLASSIFICATION NUMBER: US/08/487.860
FLLSSIFICATION NUMBER: US/08/487.860
ATTORNEY ACENT HYCHARTION:
NAME TO ATTORNEY ACENT HYCHARTION:
NAME TO ATTORNEY ACENT HYCHARTION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: 310-445-9031
INFORMATION FOR SED 10 NO: 34:
SEQUENCE CHARACTERISTICS:
CENTRY: ALS BASE PAIRS
WODE: ALS BASE PAIRS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 74
CORRESPONDENCE ADDRESS:
STREET: 119 NORTH FCURTH STREET, SUITE 203
CITY: WINNESOTA
STATE: WINNESOTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-487-860-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 58.71
Matches 27: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: singl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
21P: 55401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
21P: 90025-3395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    đ
                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14, Application US/08285916
Patent No. 572881
CREERAL INFORMATION DAIL
APPLICANT: USEAF, SCOLT
APPLICANT: Muse, William
APPLICANT: Muse, William
TITLE OF INVENTION: No. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Mo. 5728821e1 Mutant BR96 Antibodies Antibodies Antibodies Antibodies Antibodies Antibodies Antibodies 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Owery Match 13.04; Score 15.6; DB 4; Length 47; Best Local Similarity 61.24; Preced No. 75+03; Park Local Similarity 81.24; Preced No. 75+03; Park Matches 24; Conservative 0; Hismatches 14; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery March 13.0%; Score 15.6; DB 1; Length 48; Best Local Statlarity 58.7%; Preced. No. 74+03; Marches 27; Conservative 0; Mishatches 19; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA

ZERIO 90025-3995

CONTUTER READABLE FORM:
REDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM COMPUTER: US,08/285,936

TILNG DATE: U4-MUG-1994
CLASSIFICATION HORBE: US,08/285,936

TELECOMPUTER/ADCM THFORMATION:
NAME: Adiano, Sarah B.
RESTERPING: ADIA NUMBER: 304.40

TELECOMPUTER/COCKET WHERE: 304.40

TELECOMPUTER/TON HYDREMATION:
TELEPRINE: 310-445.1140

TELEPRINE: 310-445.1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21 CTAACCCACACCTCATTATCCCCACTCCAGAGGGATTC 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10 CTAAGCGTCACCCGGGATCGCCACTGTGTTGGAATTC 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: synthetic oligonucleotide US-09-173-043-12
CURRENT APPLICATION NUMBER: US/09/173,043
CURRENT APPLICATION NUMBER: US/09/173,043
CURRENT FILING DATE: 1999-10-15
EARLIER APPLICATION NUMBER: US 60/062,061
EARLIER FILING DATE: 1997-10-16
NUMBER OF SED ID NOS: 34
SOFFWARE: FastSED for Windows Version 3.0
SED ID NO 12
LENGTH: 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Inner
NOLECULE TYPE: DNA (genomic)
US-08-285-596-34
                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

0; Gaps

23 AACCCACACCTCATTATCCCCACTCCAGGGGATTCAGGGGTTCCA 68

ô

21

```
; ANTI-SENSE:
US-08-453-682-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 55
                                                                                                                                                                           ò
                                                                                                                                                                                                                   윰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15, Application US/08463682
Patent No. |6008193
GENERAL INFORMATION:
APPLICANT: Leonard Garfinkol, et al.
TITLE OF INVENTION: Willebrand Factor GPID Binding Domain Polypeptides and
TITLE OF INVENTION: Willebrand Factor GPID Binding Domain Polypeptides and
TITLE OF INVENTION: Wethods of Using Same
NUMBER OF SEQUENCES: 24
CORRESPED ADDRESS:
ADDRESSEE: Cooper f Dunham
STREET: 1185 Avenue of Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                          Sequence 6, Application US/09387800
Fatent No. 1620072
GENERAL INFORMATION
TITLE OF INVENTION: WOLE ACTIVATOR FOR ALCOHOL DEHYDROGENASE AND GENE
TITLE OF INVENTION: WOLE ACTIVATOR FOR ALCOHOL DEHYDROGENASE AND GENE
TITLE OF INVENTION: WOWELR: US/09/387,800
CURRENT APPLICATION NUMBER: US/09/387,800
CURRENT FILING DATE: 1999-09-01
EARLIER APPLICATION NUMBER: 1990-09-02
SERVIER FILING DATE: 1998-09-02
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Fatentin Ver: 2.1
SEC ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Description of Artificial Sequence:BS-YQKG2-2
US-09-387-800-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match
13.0%; Score 15.6; DB 4; Length 38;
Best Local(Similarity 70.0%; Pred. No. 6.4e+03;
Matches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UNDER: US/08/463,682
CLASSTICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 GGGTTCCAGCGTTCCTGAAATGATCGATT 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATORNEY AGENT INFO MAY AND A MAKE! HALLE, JOHN P. REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 3653/
RELECOMMUNICATION INFORMATION:
TELECHONE: (212) 278-0400
TELECHORE: (212) 391-0525
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: | nucleic acid
STRANDEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: New YORK
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy di
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -08-463-682-15/c
RESULT 52
US-09-387-800-6/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
```

```
APPLICAMT: Leonard Garfinkel, et al.
APPLICAMT: Leonard Garfinkel, et al.
TITLE OF INVENTION: Cloning and Production of Human Von
TITLE OF INVENTION: Willebrand Factor GPIb Binding Domain Polypeptides and
TITLE OF INVENTION: Methods of Using Same
CORRESPONDENCES: 24
CORRESPONDENCE ADDRESS:
                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
  Length 45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 13.0%; Score 15.6; DB 3; Length 46; Best Local Similarity 70.0%; Pred. No. 6.9e+03; Matches 21; Conservative 0; Mismatches 9; Indels
                                                    9: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN PC-DOS/MS-DOS
SOFTWARE: PATENTIN DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 36537-82-Y
TELECHONE: (212) 278-0400:
TELEPHONE: (212) 278-0400:
TELEPHONE: (212) 291-052-5
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: AC base pairs
TYRELECHORES: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-173-043-12
Sequence 12, Application US/09173043
Setent No. 6207442
GENERAL INFORMATION:
APPLICANT: RAYMOND, Christopher K.
ITILE OF INVENTION: PLASHID CONSTRUCTION BY HOMOLOGOUS
TITLE OF INVENTION: RECOMBINATION
Query Match 13.0%; Score 15.6; DB 3; Best Local Similarity 70.0%; Pred. No. 6.9e+03; Matches 21; Conservative 0; Mismatches 9;
                                                                                                   44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                 44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 42 ACTATAGAATGAACCCGGGGTCCCAGCTTT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Cooper & Dunham
STREET: 1185 Avenue of Americas
                                                                                                                                                                                                                         RESULT 54
US-08-463-682-13/c
Sequence 13, Application US/08463682
Patent No. 6008193
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
HEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: New York
STATE: New York
COUNTRY: U.S.A.
21P: 10036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-CPULE
```

0; Gaps

```
RESULT 51
(S-09-037-377-29/c
(S-09-037-377-29/c
(S-09-062-37)
Patent No. 6455885
CENERAL INFORMATION:
APPLICANT: Levinous, Douglas A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
TITLE OF INVENTION: COMPOSITIONS AND DIAGNOSIS OF IMMUNER OF SEQUENCES: 45
CORRESPONDENCE ADORRES: 45
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                            Ouery Mitch 13.0%; Score 15.6; DB 4; Length 31; Best Local Similarity 70.0%; Pred. No. 56-03. Marches 21; Conservative 0; Mismatches 9; Indels Marches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13.0%; Score 15.6; DB 4; Length 31; 70.0%; Pred. No. 6e+03; tive 0: Mismatches 9; Indels
                                                                                                                                                                                                                                                           42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                         31 CCACCCCASGACGATTIACTGGTACCCGCG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31 CCACCCCAGGACGATTACTGGTACCGGG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION WINBER: US 08/609,583
FILING DATE: 01-MAR-1996
APPLICATION NUMBER: US 08/497,748
FILING DATE: 07-1UN-1995
ATTORNET/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
WEDION TYPE: Diskette
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FARSESO Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/032,337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7853-016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: COCUZZI, LGUEA A. REGISTRATION NUMER: 30,742
REFERENCE/COCKET NUMBER: 7853-
TELEPCOMUNICATION INDEXAMILON:
TELEPRONE: 212-790-9050
TELEFRAX: 212-790-9050
TELEFRAX: 212-790-9050
TELEFRAX: 212-790-9050
TELEFRAX: 212-790-9050
TELEFRAX: 312-790-9050
EQUIENCE CHARACTERISTICS:
LENGTH: 31 Dase pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 13.0°
Best Local Similarity 70.0
Matches 21: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: nucleic acid
STRANDEDNESS: single
             TOPOLOGY: linear
MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNIRY: USA
2IP: 10036/2711
                                                                  ; FEATURE:
US-09-310-367-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-032-337-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY:
                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
TITLE OF INVENTION: COMPOSITIONS AND WETHODS FOR THE DIAGNOSIS AND FILLE PETERENEE: TREATHENT OF INGUINE DISCRIBES FILLE REFERENCE: 7853-158
CURRENT APPLICATION NUMBER: US/09/560,639
CURRENT FILLING DATE: 2000-04-28
EARLIER FILLNG DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 33
SOSTHARE: FastSEQ for Mindows Version 3.0
SEQ ID NOS: 34
LENGTH: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
TITLE OF INVENTION: TREATHENT AND DIAGNOSIS OF IMMUNE DISORDERS
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
STREET: Penale & Edwands
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Watch 13.0%; Score 15.6; DB 4; Length 31; Local Similarity 70.0%; Pred. No. 6e+03; And Parathe 0; Mismarches 9; Indels nes 21; Conservative 0; Mismarches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31 CCACCCCAGGACGATTACTGGTACCGCC 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TIPE: UISACECE
COMPUTER: ISAC COMPATEDE
SOFTHARE: TRAEEDO 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/310,367
TILING DATE: US/09/310,367
TILING DATE: US/09/310,367
TILING DATE: US/08/829,525
FILING DATE: 30.4MR-1997
APPLICATION NUMBER: US/08/609,583
FILING DATE: 01.0NR-1996
APPLICATION NUMBER: US 08/487,748
FILING DATE: 01.0NR-1995
APPLICATION NUMBER: US 08/39,633
FILING DATE: US 08/398,633
                                                                                                                                                                                                                                                                                                                                                                                JOTHER INFORMATION: 5' Oligonucleotide US-09-560-639-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 50
6.09-310-367-29/c
Sequence 29, Application US/09310367
Sequence 29, Application US/09310367
Patent No. 6414117
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 1155 Ave
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RY: USA
10036/2711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
```

ò

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                            US-08-937-399-29/C
US-08-937-399-29/C
Sequence 29, Application US/08937399
Patent No. 6288218
GENERAL INFORMATION:
APPLICANT: Levinson, Douglas A.
TILE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
TILE OF INVENTION: TREATMENT AND DIAGMOSIS OF IMMUNE DISORDERS
NUMBER OF SOUGNEES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 13.0%; Score 15.6; DB 4; Length 31; Best Local Similarity 70.0%; Pred. No. 6e+03; Matches 21; Conservative 0; Mismatches 9; Indels
        Indels
     ö
     0; Mismatches
                                                    42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                  31 CCACCCCAGGACGATTTACTGGTACCCGCG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
CLASSFICATION:
CLASSFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUBER: 01.6609.583
FILING DATE: 01.4MR-1996
APPLICATION NUBER: US 08/487,748
FILING DATE: 07.4UN-1995
APPLICATION NUBER: US 08/396,633
FILING DATE: 03.4MR-1995
APPLICATION NUBER: US 08/396,633
FILING DATE: 03.4MR-1995
ATTORNEY/ACRT INFORMATION:
NAME: COUZZI, LAURA A.
REGISTRATION NUBER: 7853-048
TELECOMMUNICATION INFORMATION:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATION SYSTEM: DOS
SOFTWARE: FASISED VERSION 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,399
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-560-639-24/c
; Sequence 24, Application US/09560639
; Patent No. 632334
; GENERAL INFORMATION:
; APPLICANT: Kingsbury, G.
APPLICANT: Lelby, K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible
     21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM:
SOFTWARE: FASTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New York
New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 10036/2711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-937-399-29
        Matches
                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                    ·.
                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESGULT 47 | C. CORRESSONDENCE 39, Application US/08609583A Sequence 29, Application US/08609583A Sequence 29, Application US/08609583A Sequence 29, Application US/08609583A TOWERT NOW TOWNSTOWN SEQUENCE STILLS OF INVENTION COMPOSITIONS AND METHODS FOR THE TITLE OF INVENTION TREATMENT AND DIAGNOSIS OF INMUNE DISORDERS NUMBER OF SEQUENCES 37 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                              Query Match 13.0%; Score 15.6; DB 3; Length 31; Best Local Similarity 70.0%; Pred. No. 6e+03; Matches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13.0%; Score 15.6; DB 4; Length 31; 70.0%; Pred. No. 6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM. DOS.
SOCHWARE: F. SESTEM. VEFSION 2.0
CURRENT 'APPLICATION DATA:
APPLICATION NUMBER: US/06/609,583A
FILING DATE: 01-MAR-1996
CLASSIFICATION DATA:
APPLICATION NUMBER: US 08/487,748
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/398,633
FILING DATE: 03-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: COUNZI, LAURA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOSCET NUMBER: 30,742
REFERENCE/DOSCET NUMBER: 30,742
REFERENCE/DOSCET NUMBER: 7853-048
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
TELECOMOUNICATION INFORMATICN:
TELEPRAX: 212-369-9804
TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: INCLEASE acid
STRANDEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERAȚING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 31 base pairs
TYPE: | nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                             TOPOLOGY: linear
MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: | New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10036/2711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-509-583A-29
                                                                                                                                                                                                                                                                                                  US-08-829-525-29
```

```
DAREAL INCLUDION. DOUGLAS A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
NUMBER OF SEQUENCES: 38
CORRESPONDENCE TO THE THEORY OF THE THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Owery Match 13.04; Score 15.6; DB 4; Length 27; Dest Local Similarity 81.8t; Preci No. 5.7e+03. Marches H8; Conservative 0; Mismatches 4; Indels Matches 18; Conservative 0; Mismatches 4.
FILLING DATE: 21-AUG-1952
APPLICATION NUMBER: US 07/098,766
FILLING DATE: 28-JUL-1993
APPLICATION NUMBER: ECT-US93
APPLICATION NUMBER: ECT-US93
APPLICATION NUMBER: US 07/454,450
FILLING DATE: 19-AUG-1989
APPLICATION NUMBER: US 07/516,662
FILLING DATE: US 07/516,662
FILLING DATE: US 07/516,662
FILLING DATE: US 07/516,62
APPLICATION NUMBER: US 07/516,662
FILLING DATE: LA NOV-1993
ATTORETY ACTOR INFORMATION:
NAME: Haley Jr. James F. REERRENE/COCKET NUMBER: B170 CIP 2
RECEPTIONE: (212) 596-9000
IELEPHONE: CANANTERISTICS:
LENGTH: 27 DASE PAIRS
TYREDIGHOUSE CHARACTERISTICS:
LENGTH: 27 DASE PAIRS
TYREDIGHOUSE CHARACTERISTICS:
LENGTH: 27 DASE PAIRS
TYREDIGHOUSE COLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Diskette
CMPUTER: IBM Compatible
OPENATING SYSTEM: DOS
SOFTWARE: FastESED Version 2.0
CURRET APPLICATION DATE: 28 SHAR-1997
CLASSIFICATION: 536
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA
APPLICATION DATA: 08/60,583
FILING DATE: 01-MAR.1996
FILING DATE: 07-104.1995
FILING DATE: 07-104.1995
FILING DATE: 07-104.1995
ATTORNEY/AGRITINFOMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: COTUZZI, LAUFA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 GATGCCATAGTGAGGCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 29, Application US/U8829525 Patent No. 6084083 CENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: DNA (genomic) US-08-235-403-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 46
US-08-829-525-29/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match 13.0%; Score 15.6; DB 1: Length 27; Best Local Similarity 81.8%; Pred. Mo.: 5.7ev03. Marches 18; Conservative 0; Mismatches 4: Indels Marches 18; Conservative 0; Mismatches 4: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
WEDDIN TYEE: Floppy disk
COMPUTER: IMM PC compatible
OPERATING SYSTEM: PC:DOS/MS:DOS
SOFTHARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                               CLASSIFICATION: 514

PRIOR APPLICATION DATA
APPLICATION DATA
APPLICATION DATA
APPLICATION WINBER: US 08/235,403
FILING DATE: 28-APR-1994
APPLICATION WINBER: US 07/934,375
APPLICATION WINBER: US 07/938,766
FILING DATE: 28-AUL-1993
APPLICATION WINBER: US 07/454,450
FILING DATE: 21-DEC-1989
APPLICATION WINBER: US 07/454,60
FILING DATE: 21-DEC-1989
APPLICATION WINBER: US 07/454,60
FILING DATE: 21-DEC-1989
APPLICATION WINBER: US 07/456,662
FILING DATE: 21-DEC-1989
APPLICATION WINBER: US 07/556,662
APPLICATION WINBER: US 07/556,662
FILING DATE: 24-MOV-1993
ATTORNEY/DOCKT WINBER: BJ70 CIP 2
RECEISTRATION WINBER: 27/794
RECEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/934,375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/235,403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : MOLECULE TYPE: DNA (genomic)
US-08-450-236-36
                                    25-MAY-1995
```

0; Gaps

```
STREET: 1251 Avenue of the Americas CITY: New York STATE: New York COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/450,236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FISH & NEAVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 10020
COMPUTER READABLE FORM:
HEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-451-233-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 36, Application US/08451233

Patent No. 5747641
GENERAL INFORMATION
GENERAL INFORMATION
GENERAL INFORMATION
GENERAL INFORMATION
GENERAL INFORMATION
GENERAL INFORMATION
GENERAL STANEL, Alan
APPLICANT: PABEL, Stephen E.
APPLICANT: PEPTINSKY, R. B.
TITLE OF INVENTION: TAT-DERIVED TRANSPORT POLYPEPTIDES
NUMBER OF SOURENCES: 69
CORRESPONDENCE ADDRESS:
ADDRESSEE: TISH & NEAVE
STREET: 1251 Avenue of the Americas
GITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match
13.0%; Score 15.6; DB 1; Length 27;
Best Local Similarity 81.8%; Pred. No. 5.7e+03;
Matches 18; Conservative 0; Mismatches 4; Indels
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PAREATIO Release #1.0, Version #1.25
CURRENT'APPLICATION DATA:
APPLICATION UNMBER: US/08/450.098
FILING DATE: 25-MAY-1995
CLASSIFICATION: 514
                                                                                                                                                                                                   PRICATION DATA:

APPLICATION NUMBER: US 08/235,403

FILING DATE: 21-AUG-199.

APPLICATION NUMBER: US 07/934,375

FILING DATE: 21-AUG-199.

APPLICATION NUMBER: DCT/0098,766

FILING DATE: 3-JUL-199.

APPLICATION NUMBER: PCT/0059,706

FILING DATE: 19-AUG-199.

APPLICATION NUMBER: US 07/454,450

FILING DATE: 21-DEC-1989

APPLICATION NUMBER: US 07/56,662

FILING DATE: 21-DEC-1991

APPLICATION NUMBER: US 07/56,662

FILING DATE: 20-JAN-1991

APPLICATION NUMBER: US 07/56,662

FILING DATE: 21-AUG-1991

APPLICATION NUMBER: US 07/56,662

FILING DATE: 21-AUG-1991

APPLICATION NUMBER: US 07/56,662

FILING DATE: 21-AUG-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             B170 CIP 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LEEFA: (212) 596-9000
TELEX: (14.8367)
TELEX: 14-8367
SEQUENCE CHARACTERISTICS:
LENGHATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGH: 27 base pairs
TYPE: nucleic acid
STRANDEONESS: 84-
TOPOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRI..
ZIP: 10020
COMPUTER READBABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Haley Jr., James F. REGISTRATION NUMBER: 27,794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; MOLECULE TYPE: DNA (genomic) US-08-450-098-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 43
US-08-451-233-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           đ
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 13.0%: Score 15.6; 0B 1; Length 27; Best Local Similarity 81.8%; Pred. No. 5.7e+03; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 36, Application US/08450236
Patent No. 5804601
BAREAL INFORMATION:
APPLICANT: FRANKEL, Alan
APPLICANT: PABO, Carl
APPLICANT: BARSOUM, James G.
APPLICANT: FAWELL, Stephen E.
APPLICANT: PEPINSKY, R. B.
TITLE OF INVENTION: TAT-DERIVED TRANSPORT POLYPEPTIDES
NUMBER OF SEQUENCES: 69
CORRESPONDENCE: 69
OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
APPLICATION WUBER: US/08/45,233
FILHG DATE: 25 MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
FILLG DATE: 28 MAY-1995
APPLICATION NUMBER: US 07/934,375
FILLG DATE: 28 MAY-1993
APPLICATION NUMBER: US 07/934,375
FILLG DATE: 19-MU-1993
APPLICATION NUMBER: US 07/454,450
FILLG DATE: 19-MU-1993
APPLICATION NUMBER: US 07/454,650
FILLG DATE: 21-MU-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 02-JAN-1991
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 10-MU-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 21-MO-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 10-MO-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 21-MO-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 31-MO-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 31-MO-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 31-MO-1993
APPLICATION NUMBER: US 07/656,662
FILLG DATE: 14-8367
INFORMATION FOR SEQ ID NO: 36:
SDOUGHCE CHARACTERISTICS:
LENGAR: 14-8367
INFORMATION FOR SEQ ID NO: 36:
STANMEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: Pc-DOS/MS-DOS
CURRENT APPLICATION DATA:
```

```
0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Overy Match 13.0%; Score 15.6; DB 1; Length 27; Deet Local Similarity 91.6%; Pred. No. 5.7e+03. New Setches 4: Indels Metches 18; Conservative 0; Mismatches 4: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 42
US-08-15
US
                                                                                                                                                                                                                                 CORPUTER REDABLE FORM:

WEDIUM TYPE: Floppy disk
COMPUTER: IBMC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
SOFTWARE: PREDEATION RELEASE
CLASS PLICATION WHRER: US 08/235,403
FILING DATE: 28-ARY 1994
APPLICATION WHRER: US 07/93,735
APPLICATION WHRER: US 07/93,735
APPLICATION WHRER: US 07/454,450
FILING DATE: 28-JUL-1992
APPLICATION WHRER: US 07/454,450
FILING DATE: 21-DEC-1989
APPLICATION WHRER: US 07/454,450
FILING DATE: 21-DEC-1989
APPLICATION WHRER: US 07/454,60
FILING DATE: 21-DEC-1989
APPLICATION WHRER: US 07/454,60
FILING DATE: 21-DEC-1989
APPLICATION WHRER: US 07/536,662
FILING DATE: 21-DEC-1989
APPLICATION WHRER: 27/794
REDESTRATEON WHRER: 27/794
REPERRENCE/DOCKET WHRER: 27/794
REPURITER 37/794
REPURITE
STREET: 1251 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TOPOLOGY: linear
; MOLECULE TYPE; DNA (genomic)
US-08-450-246-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery March 13.0%; Score 15.6; 08 1; Length 27; Best Local Similarity 81.8%; Pred. No. 5.7e+03; Marches 18; Conservative 0; Mismarches 4; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 30. Application US/08450246

Patent No. 5570617

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: FRANCEL, Alan
APPLICANT: FRANCEL, Stephen E.
APPLICANT: FANCEL, Stephen E.
APPLICANT: PROFINENT, R. B.
71TLE OF INVENTION: 7A7-DERIVED TRANSPORT POLYPEPTIDES
WINDER OF SEQUENCES.
CORRESPONDENCE ADDRESS:
ADDRESSEE: FISH & NEAVE
            TITLE OF INVENTION: TAT-DERIVED TRANSPORT POLYPEPTIDES
NUMBER OF SEQUENCES: 69
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
CORRESPONDENCE FISH & NEAVE
STREE: 1251 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                      COUNTRY: New York

COUNTRY: New York

THE TOOM THE TOOM:
COMPUTER: LIB PC COMPATIBLE
CURRENT APPLICATION NUMBER: US/08/450,257
FILING DATE: 25-MAY-1995
FILING DATE: 28-MAY-1994
APPLICATION NUMBER: US 07/33,375
FILING DATE: 28-MAY-1994
APPLICATION NUMBER: US 07/33,375
FILING DATE: 28-MAY-1997
APPLICATION NUMBER: US 07/454,450
FILING DATE: 28-MAY-1991
APPLICATION NUMBER: US 07/454,450
FILING DATE: 28-MAY-1991
APPLICATION NUMBER: US 07/454,60
FILING DATE: 28-MAY-1991
APPLICATION NUMBER: US 07/454,60
FILING DATE: 28-MAY-1991
APPLICATION NUMBER: US 07/454,60
FILING DATE: 24-MAY-1991
APPLICATION NUMBER: US 07/454,60
FILING DATE: 24-MAY-1991
APPLICATION NUMBER: 02-174-1991
APPLICATION NUMBER: 02-174-1991
APPLICATION NUMBER: 02-175-1994
REERRACE/OCORT NUMBER: 02/394
REERRACE/OCORT NUMBER: 02/394
REERRACE/OCORT NUMBER: 02/394
REERRACE/OCORT NUMBER: 02/396
FILING DATE: 24-MAY-1991
ATTOMNYCATION HOPER: 02/396
FILING DATE: 24-MAY-1991
ATTOMNYCATION HOPER: 02/396
ATTOMNYCATION HOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TOPOLOGY: linear; MOLECULE TYPE: DNA (genomic) US-08-450-257-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-450-246-36
```

õ

```
GENERAL INFORMATION:
APPLICANT: Blumenfeld, Marta
APPLICANT: Blumenfeld, Marta
APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya
APPLICANT: Chumakov, Ilya
APPLICANT: Chohen, Annick
TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
FILE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
CURRENT APPLICATION NUMBER: US, 90/502,330
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: US 60/133,200
PRIOR FILING DATE: 1999-05-07
PRIOR FILING DATE: 1999-05-07
PRIOR FILING DATE: 1999-02-12
NUMBER OF SED ID MOS: 1304
SED ID NO 1225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 13.2%: Score 15.8; DB 4; Length 47; Best Local Similarity 65.7%; Pred. No. 5.9e+03; Matches 23; Conservative 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                               Length 33;
                                                                                                                                                                                                                                                                                                                              7; Indels
                                                                                                                                                                                                                                                                         Ouery Match 13.2%: Score 15.8; DB 1;
Best Local Similarity 74.1%: Pred. No. 5.2e+03;
Matches 20; Conservative 0; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13 TGACCCTCCTAACCCACACCTCATTATCCCCACTC 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 TCAGCCTCTCCACCTATCTCTCCCAATC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : NAME/KEY: allele
: LOCATION: 19
: OTHER INFORMATION: 12-214-85 : deletion CCTAT
US-09-641-638-1225
                                                                                                                                                                                                                                                                                                                                                                              43 CACTCCAGAGGGATTCAGGGGTTCCAG 69
                                                                                                                                                                                                                                                                                                                                                                                                                              28 CACTCCAGAGGGATGAAAAGGTTTCAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1225, Application US/09641638
Patent No. 6432648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 36, Application US/08450257
Patent No. 565112
GENERAL INFORMATION:
APPLICANT: FRANKEL, Alan
APPLICANT: PABO. Carl
APPLICANT: BAWELL, Stephen E.
APPLICANT: PEPINSKY, R. B.
  TELEPHONE: (609) 779-2400
TELEFAX: (609) 779-8488
INFORMATION FOR SED ID NO: 3: SEQUENCE CHARACTERISTICS:
                                                                                                                           TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
NATI SENSE: No
US-08-385-446-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo Saplens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-641-636-1225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 40
US-08-450-257-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                         US-09-149-922-13/C
Sequence 13, Application US/09149922A
Facence 13, Application US/09149922A
Facence 13, Application US/09149922A
Facence 13, Application US/09149922A
GENERAL INFORMATION:
APPLICANT; Haing, Well
APPLICANT; Haing, Memora
TITLE OF INVENTION: PROTEIN PROTEIN INTERACTIONS
TITLE OF INVENTION: PROTEIN-PROTEIN INTERACTIONS
FILE REFERENCE: 9366-006
CURRENT FILING DATE: 1998-09-09
EARLIER FELING DATE: 1997-11-03
NUMBER OF SEQ ID MOS: 57
SOFTWARE: Patentin Ver: 2.0
SEQ ID NO : 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 38 | US-08-185-446-3/C
| US-08-185-446-3/C
| Sequence 3, Application US/08385446
| Patent Mo. 576342
| GRREAL INFORMATION:
| APPLICANT: Hul Zhang, Roger J. Pomerantz
| TITLE OF INVENTION: Efficiency of Recombinant Retroviral
| TITLE OF INVENTION: Vectors
| NUMBER OF INVENTION: Vectors
| NUMBER OF SEQUENCES: 3
| CORRESPONDENCE ADDRESS:
| ADDRESSE: Jane Massey Licata, Esq.
| STRRET: 210 Lake Drive East, Suite 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-149-922-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match
13.2%; Score 15.8; DB 4; Length 31;
Best Local Similarity 74.1%; Pred. No. 5.1e+03;
Matches 20; Conservative 0; Mismatches 7; Indels
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
COMPUTER: IBM 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: TAN WINDOWS FOR WORKGROUPS OFENATING SYSTEM: WINDOWS FOR WORKGROUPS SOFTWARENT APPLICATION DATA:
APPLICATION NUMBER: US/08/385.446
FILING DATE: Herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      89 TIGGUTICCATAGCIGCIGAATIGCAG 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
ATTORNEY, AGENT INFORMATION:
NAME: | Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: JEFF-0066
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

```
Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                 COTHER INFORMATION: Description of Artificial Sequence:ribozyme for COTHER INFORMATION: codon 215 - mutant (C to U or A) US-09-270-140A-71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query March
13.54: Score 16.2: DB 4: Length 45:
Best Local Similarity 72.4%; Pred. No. 4.2e+03.
Marches 21: Conservative 0: Mismatches 8: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery March 13.5%: Score 16.2%: DB 5: Length 46; Best Local Similarity 60.0%; Pred. Mo. 4.2e+03; Matches 27: Conservative 9; Mismatches 18: Indels Matches 27: Conservative 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 36
PCT-US94-0259-1/C
SQUENCE 1. Application PC/TUS9402559
SQUENCE 1. Application PC/TUS9402559
GENERAL INFORMATION:
APPLICANT: Ramebameha Kay-Hin Wong, Jr.
APPLICANT: Ramebameha Kay-Hin Wong, Jr.
APPLICANT: Ramebameha Kay-Hin Wong, Jr.
TITLE OF INVENTION: RIDOXYMMES Which Cleave
TITLE OF INVENTION: POPILIOMAVITUS
NUMBER OF SEQUENCES:
ADDRESSE: City of Hope
"""
ADDRESSE: City of Hope
"""
ADDRESSE: City of Hope
"""
ADDRESSE: City of Hope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPOTER: Wang PC
COMPOTER: Wang PC
CORRATING SYSTEM: MS-COS (R) Version
OPERATING SYSTEM: 3.30
SOFTWARE: MICROSOft (R)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/MS94/02559
FILING DATE: 08 MAICh 1994
CLASSIFICATION:
PRIOR APPLICATION DATA: None
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17 CCTCCTAACCCACACCTCATTATCCCCAC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31 CGTCCTCACGACTCATCAGAATCCCCAC 3
          CURRENT APPLICATION NUMBER: US/09/270,140A CURRENT FILING DATE: 1999-05-16 PRIOR APPLICATION NUMBER: 60/079,651 PRIOR FILING DATE: 1996-03-27 NUMBER OF SED ID NOS: 96 SOFTWARE: PALENTH: Ver. 2.1 SEQ ID NO 71 LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TATATE CALIFORNIA
COUNTRY: United States of America
LIP: 91010-0269
LIP: 94010-0269
MEDIUM TYPE: 3M Double Density 5 1/4*
MEDIUM TYPE: diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Irons, Edward S.
REGISTRATION NUMBER: 16,541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: None
INFORMATION FOR SEG 1D NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 46
TYPE: Nucleotide
STRANDEDNESS: Single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: NO.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 783-6640
                                                                                                                                                                                                                                       TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (202) 783-6040
(202) 783-6031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TOPOLOGY; Linear
PCT-US94-02559-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: Calif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 13.5%; Score 16.2; DB 4: Length 45; Best Local Similarity 64.9%; Pred. No. 4.2e+03; Matches 24; Conservative 0; Mismatches 13; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                       Owery Watch 13.5; Score 16.2; DB 3; Length 45; Best Local Similarity 64.9%; Pred. No. 41.2ev03. Makethes 24; Conservative 0; Mismatches 33; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT TOdd. Alison
APPLICANT FVERY, Caroline
APPLICANT Calms, Muray
TITLE OF INVENTION: Catalytic Nucleic Acid base Diagnostic Methods
FILE REFERENCE: 36J1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  55 ATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGAITG 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 34

GS-08-512-316-6

Sequence 6, Application US/08522336A

PARENT NO GS87863

GREENL INFORMATION: Vectors for gene transfer

TITLE OF INVENTION: Vectors for gene transfer

FILE REFERENCE 18 001051

CURRENT APPLICATION NUMBER: US/08/522,336A

CURRENT FILING DATE: 1995-11-0

EARLIER FILING DATE: 1995-11-0

EARLIER FILING DATE: 1994-02-14

EARLIER FILING DATE: 1994-02-14

EARLIER FILING DATE: 1994-02-14

EARLIER FILING DATE: 1993-00-16

EARLIER FILING DATE: 1993-00-16

EARLIER FILING DATE: 1993-00-15

EARLIER FILING DATE: 1993-00-12

EARLIER FILING DATE: 1993-00-12
EARLIER FILING DATE: 1992-10-29
EARLIER APPLICATION NUMBER: US 07/603,635
EARLIER FILING DATE: 1990-10-25
NUMBER OF SEQ ID NOS: 16
SOFTWARE: FASISEO for Windows Version 3.0
SEQ ID NO 6
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: An oligonucleotide US-08-522-336-6
                                                                                                                                                                                                                                                                                             CTHER INFORMATION: An oligonucleotide US-08-213-741-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 35
US-09-270-140A-71/C
US-09-270-140A-71/C
: Petent No. 6361941
: GENERAL INFORMATION:
                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ć
```

```
14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAG 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 GAACGCACTCACAGTCACATCATAATCCTCTCAAAG 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Parent No. 5185244

**PATECANT: WALLACE, DOUGLAS C.

**NEURONISCULAR DISEASE

**NUMBER OF SEQUENCES: 10

**CURRENT APPLICATION DATA:

**REPROJUCICATION DATA:

**PAPELICATION DATA:

**FILING DATE: 08-DEC-1989
                         FILING DATE: 29-AUG 1996
CLASSIFICATION: 435
ATTONEY/AGENT INFORMATION:
NAME: GTARATION NUMBER: 32,227
REFRENCE/DOCKET NUMBER: MIT-7352
TELECOMMUNICATION INFORMATION:
TELEFAX: (781) 861-6540
INFORMATION FOR SEQ 10 NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 41 base pairs
TYPE: nucleic acid
STRANDENDESS: single
         UMBER: US/08/705,196
29-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  89 TIGGCTTCCATAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22 TTAGCTTCCTTAGCTCCTGAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-213-741-6
: Sequence 6, Application US/08213741
: Patent No. 6027722
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: RNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match 13.59
Best Local Similarity 85.79
Matches 18; Conservative
CURRENT APPLICATION DATA:
                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; LENGTH: 42
5185244-9
                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                       US-08-705-196-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :8EQ ID NO:9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                              Sequence 3, Application US/08705196
Patent No. 5879905
GENERAL INFORMATION:
TITLE OF INVENTION: In Vivo Method of Initiating Protein
TITLE OF INVENTION: Synthesis With an Amino Acid Other than Methionine
TITLE OF INVENTION: Synthesis With an Amino Acid Other than Methionine
TITLE OF INVENTION: Synthesis With an Amino Acid Other than Methionine
TITLE OF INVENTION: Synthesis With an Amino Acid Other than Methionine
TITLE OF INVENTION: Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/08765196
Sequence 4, Application US/08765196
Sequence 4, Application US/08765196
GENERAL INFORMATION:
APPLICANT: Rajbhandary, Uttam L.
APPLICANT: Rajbhandary, Uttam L.
TITLE OF INVENTION: Not New New York of Initiating Protein
TITLE OF INVENTION: Synthesis With an Amino Acid Other than Methionine NUMBER OF SEQUENCES: 6 CORRESPONDENCE ADDRESSE: Hamilton, Brock, Smith & Reynolds, P.C.
STREET: Two Willtia Drive COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
13.5%; Score 16.2; DB 2; Length 41;
Best Local Similarity 85.7%; Pred. No. 4e+03;
Matches 18; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                         PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 43.3
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32.27
REFERENCE/OCKET NUMBER: MIT-735.2
TELECOMMUNICATION INFORMATION:
TELEPAX: (781) 861-6246
TELEPAX: (781) 861-6240
INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS:
LENGTH: 41 base pairs
TYPE: nucleic acid
STREE: nucleic acid
STREE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HOLECULE TYPE: RNA (genomic) US-08-705-196-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
ZIP: 02173
COMPUTER READABLE PORM:
                                                                                                                                                                                                                                                                                                                             USA
                                RESULT 30 |
US-08-705-196-3/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-705-196-4/c
                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

```
Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
13.5%; Score 16.2; DB 2; Length 41; 85.7%; Pred. No. 4e+03; tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 13.5%: Score 16.2; DB 6; Length 42; Best Local Similarity 64.9%: Pred. No. 4.1e+03; Matches 24; Conservative 0; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:

APPLICANT: HOGGSON, Clague P.

TITLE OF INVENTION: Improved vectors for gene therapy
FILE REFERENCE: 518,0008US1
CURRENT APPLICATION NUMBER: US/08/213,741
CURRENT APPLICATION NUMBER: US/08/213,741
EARLIER APPLICATION NUMBER: US 08/194,208
EARLIER PILING DATE: 1994-02-07
EARLIER PILING DATE: 1994-02-07
EARLIER PILING DATE: 1993-10-01
EARLIER FILING DATE: 1993-07-26
EARLIER FILING DATE: 1993-03-12
EARLIER FILING DATE: 1993-03-12
EARLIER FILING DATE: 1993-03-12
EARLIER FILING DATE: 1993-03-12
```

Caps

ö

```
Sequence 2. Act.
Sequence 2. Act.
Sequence 2. Act.
Patent No. 5879005
CEMERAL INFORMATION:
CEMERAL INFORMATION:
TITLE OF INVENTION: In Vivo Method of Initiating Protein
TITLE OF INVENTION: Synthesis With an Amino Acid Other than Methionine
NUMBER OF SEQUENCES.
COMPRESONDENCE ADDRESS:
ADDRESSEE Hamilton, Brook, Smith & Reynolds, P.C.
STREET: TWO MILLIAD DRIVE
CITY: Lexington
SOUNDER OF STATE:
STATE:
ADDRESSEE HAMILTON:
STATE:
STATE:
ADDRESSEE HAMILTON:
STATE:
STATE:
ADDRESSEE HAMILTON:
STATE:
ADDRESSEE HAMILTON:
STATE:
ADDRESSEE HAMILTON:
STATE:
ADDRESSEE HAMILTON:
ADDRESSEE HAMIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Owery Match 13.5v. Score 16.2: DB 4: Length 39: Best Local Smilarity 85.7t, Prod. No. 4e-03; Anderson 18: Conservative 0: Mismatches 3: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
13.5%; Score 16.2; DB 2; Length 41;
Best Local Similarity 85.7%; Pred Nov. 4++03;
Marches 18; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WEDUTER: Floppy of ussk
COMPUTER: 1BN PC COMPATIBLE
COMPUTER: 1BN PC COMPATIBLE
COMPUTER: 1BN PC COMPATIBLE
SOUTHWARE: PALENTIN Release 11.0, Version #1.30
COMPUTER: 19-MOHERE: US/08/705,196
FILING DATE: 29-MOF1966
FILING DATE: 29-MOF1966
FILING DATE: 39-MOF1966
FILING 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         89 TIGGCTICCATAGCTGCAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    89 TTGGCTTCCATAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    35 TTAGCTTCCTTAGCTCCTGAA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22 TTAGCTTCCTTAGCTCCTGAA 2
                                                                       TELEPHONE: (212) 977-5550
TELEPA: (212) 977-5550
TELEPA: (212) 977-9609
TELER: 42252 COOP UI
INFORMATION FOR SEO ID NO: 12.
SEQUENCE CHARACTERISTICS:
LENGTH: 39 base pairs:
TYPE: nicleit: acid
STRANCENESS: single
TOPOLOGY: linear
                            TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
HOLECULE TYPE: RMA (genomic)
US-08-705-196-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: CDS
: LOCATION: 1..39
: OTHER INFORMATION:
US-08-901-379-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 29
US-08-705-196-2/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PESULT 28
US 909-901-370-12/C
Sequence 12, Application US/08901379
Sequence 12, Application US/08901379
Parent No. 6197542
SECTION OF THE PARENT ON THE PARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 13.5%; Score 16.2; DB 3; Length 39; Best Local Similarity 85.7%; Pred. No. 4e+03; Matches 18; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPALIA-LO-
OFRATING SYSTEM: C-COOS/MS-DOS
OFTWARE: PARCHELIN Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/901,379
FILLING DATE: 28 -2011,1997
CLASSIFICATION: 435
FILING DATE: 27-JUL-1990
ATTORNEY AGENT INFORMATION:
NAME: HOLEN, Thomas REGISTRATION WINBER: 165.79
RECISTRATION WINBER: 186.79
REPERENCE/DOCKET WINBER: 18025-2
TELECHOMBICATION HORMATION:
TELERAM: (212) 977-9809
TELERAM: 421523 6009 01
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 39 base pairs
TYPE: nucleic acid
STRANDEDRES: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 03-0CT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 8902452
FILING DATE: 03-0CT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 9001711
FILING DATE: 27-2UL-1990
ATTORNEY/AGENT INFORMATION:
NAME: NOTAN, THOMAS F
REGISTRATION NUMBER: 16,579
REFERENCE/DOCKET NUMBER: 38025-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA.
APPLICATION WINBER: 08,147,927
FILING DATE: 04-NOV-1993
APPLICATION WINBER: US 07/592,206
FILING DATE: 03-CCT-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   89 TIGGCTICCAIAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35 TTAGCTTCCTTAGCTCCTGAA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION:
US-09-234-163-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: CDS
LOCATION: 1..3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NSA
```

ô

Gaps

us-09-676-436-3\_copy\_3264\_3383.rni

```
Query Match 13.5%; Score 16.2; DB 3; Best Local Similarity 72.4%; Pred. No. 3.9e+03; Matches 21; Conservative 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11 AGTGACCCTCCTAACCCACACCTCATTAT 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 AGTAAGCTTCCGAACCCATTGCCATTAT 30
       OPERATING SYSTEM: MSDOS version 6.2 SOFTHARE: ASCII TEXX SOFTHARE: APPLICATION DATA: APPLICATION NUMBER: US/08/961,083
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Release #1.24 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/234,163
                                                                                                                                                                                                                                                                                                   PB340P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: LBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                 NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,313
REFERENCE/DOCKET NUMBER: PB34(
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 378:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 37 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                           CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
CLASSIFICATION:
                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-234-163-12/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-961-083-378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 378, Application US/08961083
Sequence 378, Application US/08961083
Patent No. 6159469
GENERAL INFORMATION:
APPLICAT: Chol et. al.
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines NUMBER OF SEQUENCES: 452
CORRESPONDENCE ADORESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
PCT-USS-0-0275-33
PCT-USS-0-0275-33
PCT-USS-0-0275-33
PCT-USS-0-0275-34
PAPLICANT: MISCATION:
PAPLICANT: MISCATION:
PAPLICANT: MISCATION: RNA Editing Enzyme and Methods of Use:
TITLE OF INVENTION: Thereof
PUBBER OF SEQUENCES: 39
CORRESPONDENCES: 39
CORRESPONDENCES: 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9; Indels
                                                                                                                                                                                                                  ADDRESSEE: Howson and Howson
STREET: Spring House Corporate Cntr, P.O. Box 457
CITY: | Spring House
STATE: Pensylvania
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER, READABLE FORM:
MEDIUM, TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBH PC compatible
OPERATING STSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
FILLING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 13.5%; Score 16.2; DB 5; Best Local Similarity 70.0%; Pred. No. 3.7e+03; Matches 21; Conservative 0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
FILING DATE: 25 JUL-1994
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/197,794
FILING DATE: 17 FEB-1994
NAME: Bak, MATY E.
REGISTRATION NUMBER: 31,215
SEQUENCE CHARACTERISTICS:
LENGTH: 32 Dase pairs
TYPE: NUCLEIC acid
STRANDENESS: Qubble
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
PCT-US95-02275-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60, GCGCTTCCAGCGTTCCTGAAATGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 GGGATCCGATCGATCNGGTAATGATCGAT 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 26
US-08-961-083-378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
```

```
Sequence 12, Application US/09234163
Sequence 12, Application US/09234163
PARENT NO. 6093534
GENERAL IMPORTATION:
APPLICANT: Wan Haute, Eddie
APPLICANT: Ameloot, Paul
APPLICANT: Meloot, Paul
APPLICANT: Fiers, Walter
ITILE OF INVENTION: Genetic Manipulations With Recombinant DNA
ITILE OF INVENTION: Genetic Manipulations With Recombinant DNA
ITILE OF INVENTION: Genetic Manipulations With Recombinant DNA
ITILE OF INVENTION: Opprising Sequences Derived From RNA Virus
NUMBER OF SEQUENCES: 13
CORRESPONDENCE 10
STATE: New YORK, New YORK
STATE: New YORK, New YORK
                                                        ö
Length 37;
                                                        8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/901,379
FILING DATE: 28-JUL-1997
FILING DATE: 04-NOV-1993
APPLICATION NUMBER: US/07/592,206
FILING DATE: 03-CCT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 8902452
FILING DATE: 03-CCT-1989
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NL 9001711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
```

0; Gaps

```
Query Match 13.5%; Score 16.2; DB 1; Length 32; Best Local Similarity 70.0%; Pred. No. 3.7e+03; Matches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                 Query Match 13.5%: Score 16.2; DB 1; Length 32; Best Local Similarity 70.6%; Pred. No. 3.7e+03; Matches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                    Sequence 33, Application US/08555678

Patent No. 5763174

GENERAL INCOMATION:
GENERAL INCOMATION:
TITLE OF INVENTION: RNA Editing Enzyme and Methods
TITLE OF INVENTION: RNA Editing Enzyme and Methods
TITLE OF INVENTION: 0. Use Thereof
NUMBER OF SEQUENCES: 67

CORRESPONDENCE ADDRESS:
ADDRESSEE: Moveon and Howson
STREET: Spring House Corporate Cntr, P.O. Box 457

CTTT: Spring House
STRATE: Pennsylvania
CCUMTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
CORRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRAIT APPLICATION DATA:
FILLING DATE:
FILLING DATE:
                                                                                                                                                                                                            60 GGGGTTCCAGCGTTCCTGAAATGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 25-JUL-1994
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/457,459
FILLIG DATE: 01-JUN-1995
ATORNEY-AGENT INFORMATION:
NAME: Bac, Mary E:
REFERENCE/DOCKET NUMBER: 31,215
REFERENCE/DOCKET NUMBER: MST490USA
TELECOMMUNICATION INFORMATION:
TELEFAX: 215-540-9206
TELEFAX: 215-540-9308
INFORMATION FOR SEQ. ID NO: 33:
ELEGIN: 215-540-9818
INFORMATION POR SEQ. ID NO: 33:
ELEGIN: 22 Dase pairs
TYPE: nucleic acid
STRANDFONESS: double
TOPOLICST: UNKNOWN
US-08-555-678-33
13.5%; SCOFE 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 GGGATCGATCGATCNGGTAATGATGAT 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING UNTE:
FLASSIFICATION: 435
PRIOR APPLICATION NATA:
APPLICATION NUMBER: US 08/297,794
FILING DATE: 17-PEB-1994
RADIA CATION NUMBER: US 08/280,443
FILING DATE: 25-JUL-1994
           STRANDEDNESS: double
                                    unknown
                                      : TOPOLOGY: unknown
: MOLECULE TYPE: CDNA
US-08-457-459-33
                                                                                                                                                                                                                                                                                                                                                 05-08-555-678-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match

13.5%: Score 16.2; DB 1; Length 32;
Best Local Statlarity 70.0%; Preef. No. 37c+03;
Matches 21; Conservative 0; Mismatches 9; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 33. Application US/08457459
Sequence 33. Application US/08457459
Setten No. 5677438
SEREPAL INFORMATION:
APPLICANT: Mishikura, Kazuko
TITLE OF INVERTION: RNA Editing Enzyme and Methods of Use
TITLE OF INVERTION: Thereof
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Howson and Howson
STREET: Spring House
CITY: Pennsylvania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TIPE: Floppy disk Computable COMPUTER: LIAM COMPACTING SYSTEM: PC-DOS/MS-DOS SOSTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: VS/08/457.459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60 GGGGTTCCAGCGTTCCTGAAAAGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GGGATCCATCGATCNGGGTAATGATCGAT 31
FILING DATE
ATTORNEY AGENT INFORMATION:
NAME: BAK, MATY E:
RECISTRATION NUMBER: 31.215
REFERENCE/DOCKET NUMBER: WST49AUSA
TELECOMMUNICATION INFORMATION:
FELECOMMUNICATION INFORMATION:
FELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
FELECOMMUNICATION INFORMATION:
TELEPHONE: 215.540-5818
INFORMATION FOR SED ID MO: 33:
EROGHER CHARACTERISTICS:
LENGTH: 32 base pairs
FFE: INFORMATION FOR SED ID MO: 33:
EROGHER CHARACTERISTICS:
LENGTH: 32 base pairs
FFE: CHARACTERISTICS:
CHOCHOCK: UNROWN
MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLÁSSIFICATION: 435
PRIOR APPLICATION DATA.
APPLICATION NUMBER: US 08/197,794
FILING DATE: 17-FEB-1994
PRIOR APPLICATION DATA.
FILING DATE: 25-3UL-1994
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: Pennsylvania
COUNTRY: USA
ZIP: 19477
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 23
US-08-457-459-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
```

ö

0; Gaps

```
5 TCAGCGGTTGAAGCGTTCCTG 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : 25 base pairs
nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TOPOLOGY:
PCT-US95-04600-11
                                                                                       PCT-US95-04600-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-280-443-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                               Ouery Match 13.7%; Score 16.4; DB 1; Length 42; Best Local Similarity 50.0%; Pred. No. 3.46+03; Matches 20; Conservative 7; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Setc., John C.
APPLICANT: Sato, Takaaki
TITLE OF INVENTION: Interaction of Proteins Involved in a
TITLE OF INVENTION: Cell Death Pathway
NUMBER OF SEQUENCES: 29
CORRESPONDER, Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: Cantifornia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13.5%; Score 16.2; DB 1; Length 25; 85.7%; Pred. No. 3.3e+03; tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                    31 CCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OFERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE:
FILING DATE:
NAME: | Kurt G. Briscoe
REGISTATION NUMBER: 33.141
REFERENCE/DOCKET NUMBER: COFLO-556-KGB
TELECOHUNICATION INFORMATION:
TELECHONE: (944) 332-1700
TELEFEAX: (944) 332-1844
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 42 Nucleotides
TYPE: | Nucleotide
STRANDENNESS: Single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: | Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9882
TELECOMMUNICATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION MOMBER: US 08/226.876
FILING DATE: 13-APR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 11, Application US/08607269
Patent No. 5702897
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 25 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 85.71
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 20
US-08-607-269-11
                                                                                                                                                                                                                                         ; TOPOLOGY:
US-08-753-054-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-607-269-11
```

57 TCAGGGGTTCCAGGGTTCCTG 77

ö

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 33, Application US/08280443
Sequence 33, Application US/08280443
Parcent No. 5641778
CENERAL INFORMATION:
TITLE OF INVENTION: RNA Editing Enzyme and Methods of Use:
TITLE OF INVENTION: Thereof
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSE: Howson and Howson
STREET: Spring House Corporate Cntr, P.O. Box 457
CITY: Spring House
STATE: Pennsylvania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 16.2; DB 5; Length 25;
Pred. No. 3.3e+03;
0; Mismatches 3; Indels
Sequence 11. Application PC/TUS9504600
GENERAL INFORMATION:
APPLICAMT: LA JOLLA CANCER RESEARCH FOUNDATION
TITLE OF INVENTION: Interaction of Proteins Involved in
TITLE OF INVENTION: a Cell Death Pathway
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4170 La Jolla Village Drive, Suite 700
CITY: San Diego.
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: FLORM:
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTHARR: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04600
FLLING DATE: 12.APR-1995
ATTORNEY/AGFWT
NAYONEY/AGFWT
N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPOTER: 1BM PC compatible
COMPRES: 1ST PC COMPATION:
SOFTAMRE: PATENTIN RELEASE #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 TCAGCGGTTGAAGCGTTCCTG 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  57 TCAGGGGTTCCAGCGTTCCTG 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: IMDER: MCDEAT
REGISTRATION NUMBER: 37,643
REFERENCE/DOCKET NUMBER: FP-LJ
TELECHONINICATION INFORMATION:
TELECHONE: (619) 535-9001
TELEFAX: (619) 535-9001
TELEFAX: (619) 535-9001
TELEFAX: (619) 535-9001
TELEFAX: (519) 535-901
INFORMATION FOR SEC ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 13.5
Best Local Similarity 85.7
Matches 18; Conservative
```

```
0: Gaps
                                                                                                                                                                                                                                                                    0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 13.7%; Score 16.4; DB 4; Length 30; Best Local Similarity 76.9%; Pred. No. 3e-03; Matches 20; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                               Ouery Match 13.8%; Score 16.6; DB 3; Length 40; Best Local Similarity 44.1%; Pred. No. 2.9e+03; Marches 25; Conservative 0; Mismatches 14; Indels Marches 25; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 12. Application US/08753054
Patent No. 5780449
GENERAL INFORMATION:
APPLICANT: Brach, Franzpeter: Schror, Karsten
TILLE OF INVERTION: CATHERSIN G-INHIBITING APTAMERS
NUMBER OF SEQUENCES:
ADDRESSEE: Spring Horn Kramer & Woods
                                                                                                                                                                                                                                                                                                                                                   14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diskette, 3.50 Inch, 1.4 Mb storage
                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/462.64SC
CURRENT FILTER UNFE: 2000-01.11
PRIOR APPLICATION NUMBER: PCT/EP98/04097
PRIOR FILING DATE: 1998-02-07
NUMBER OF SEQ ID MOS: 38
SOFTWARE: WordPerfect version 6.1
SEQ ID NO 15
LENGTH: 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5: Sprung Horn Kramer & Woods
660 White Plains Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  49 AGAGGGATTCAGGGGTTCCAGCGTTC 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: Apple Macintosh
COMPUTER: Apple Macintosh
OPERATURS SYSTEM: System 7.5
SOFTWARE: WordPerfect 3.5
CURRENT APPLICATION DATA:
FILING DATE: 19-NOV-1996
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30 AGCGGGACTCTGGGGTTGAGAGCTC 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBE: DE 195 43 750
FILING DATE: 24 NOV-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Oligonucleotide Kan-R,l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc_feature
LOCATION: 1...30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591-5144
                                               : TOPOLOGY: linear
US-08-591-605-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 19
US-08-753-054-12/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-462-645C-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match 13.8%: Score 16.6; DB 3; Length 40; Best Local Similarity 64.1%; Pred: No. 2.96-03; Local Similarity 44.1%; Pred: No. 2.96-03; Marches 25; Conservative 7; Hismatches 14; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 12, Application US/08591605
Patent No. 6606238
Patent Information:
APPLICANT: DIXII, Vishva M.
APPLICANT: DIXII, Vishva M.
APPLICANT: DIXII, Vishva M.
APPLICANT: OF INVENTION: NETBOD AND COMPOSITION FOR REGULATING
TITLE OF INVENTION: APPTOSIS
MUMBER OF SEQUENCES: 14
ZIP: 94304-1018

ZIP: 94304-1018

COMPUTER READABLE FORM:
HEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SISTEM: PC-DOS/MS-DOS
SOFTMARE: PARCHILIN RELABES #1.0, VETSION #1.30

CURRENT APPLICATION NUMBER: US/08/591,605

FLING DATE: 09-FEB-1996
CLASSIFICATION WINDERS: US/08/591,605

FLING DATE: 09-FEB-1996
CLASSIFICATION WINDERS: 18,700

REGISTATION WINDERS: 18,700

RECEPHONE: (415) #13-5600

FLEEPHONE: (415)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: CA
COUNTRY: CA
COUNTRY: CA
COUNTRY: USA
COUNTRY: WAS COUNTRY: USA
COUNTER: RADABLE FORM:
MEDIUM TIPE: Floppy disk
COUNTRY: THEN PC COMPAIDLE
COUNTRY: THEN PC COMPAIDLE
COUNTRY THEN PC CODE, MS-DOS
CURRENT APPLICATION DATA:
FILING DATE: 09-FEB-1996
CLASSIFICATION WUMBER: US/08/591.605
FILING DATE: 18FORMATION:
ATTORITY APPLICATION: 144
ATTORITY APPLICATION: 1814
ATTORITY APPOINTER: 20144-21036.21
FELECOMMUNICATION HUMBER: 20144-21036.21
FELEX: 706/41 MENPORATION:
TELLEFAM: (415) 444-0792
TELLEFAM: (415) 444-0792
TELLEFAM: CHARACTERISTICS:
LENGTH: 40 DASE PAITS
TYPE: UNCLEAR SEQ IO NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 DASE PAITS
TYPE: UNCLEAR SEG IS SEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    40 GATATIGCTCTCCAACAACTAATTAACTCGAGICTAGAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADORESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -08-591-605-12/c
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 16
US-08-591-605-9/C
US-08-591-605-9/C
Sequence 9, Application US/08591605
Patent NO. 6060218
GENERAL INFORMATION:
TITLE OF INVENTION: METHOD AND COMPOSITION FOR REGULATING
TITLE OF INVENTION: APOPTOSIS
INDMERS OF SEQUENCES: .4
CORRESPONDENCE S. .4
CORRESPONDENCE MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
                                                                                                                              Sequence 2, Application US/09270813
Fatent No. 6046007
GRNERAL INFORMATION
TITLE OF INVENTION: METHOD AND COMPOSITION FOR REGULATING
TITLE OF INVENTION: METHOD AND COMPOSITION FOR REGULATING
TITLE OF INVENTION: APOPTOSIS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                               200MINIT USA
211F: 94304
COMPUTER READABLE FORM:
WEDJUM TYPE: Floppy disk
COMPUTER: END PC compatible
COMPUTER: END PC compatible
COMPUTER: PER PC COMPATIBLE
CONTURNE: Patentin Release #1.0, Version #1.30
SOFTWARE: Patentin DATA:
APPLICATION NUMBER: US/09/270,813
FILING DATE: 17 +MR-1999
CLASSIPICATION: 435
PRIOR APPLICATION NUMBER: US 08/389,812
FILING DATE: 13 -FEB-1995
CLASSIPICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KONSKI, ANTOINETTE F.
REGISTRATION NUMBER: 34,202
REFERENCE/COCKET NUMBER: 34,202
REFERENCE/COCKET NUMBER: 34,202
RECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  40 GATATTGCTCTCCAACAACTAATTAACTCGAGTCTAGAG 2
Ouery Match 13.8%: Score 16.6; DB 3;
Best Local Similarity 64.1%; Pred. No. 2.9e+03;
Matches 25; Conservative 0; Mismatches 14;
                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Baker & McKenzie
STREET: 660 Hansen Way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFHONE: (650) 856-2400
TELEFAX: (650) 856-9299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H: 40 base pairs
nucleic acid
DEDNESS: single
OGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: PALO ALTO
STATE: CA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                    STREET: 660 Hans
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                ჯ
                                                                                                                    US-09-270-813-2/c
                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-270-813-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 14
US-08-189-812-2/C
Sequence 2, Application US/08389812
Sequence 2, Application US/08389812
Sequence 2, Application US/08389812
Setent No. 1601565
Fatent No. 1601565
FAREAL INFORMATION
TITLE OF INVENTION: METHOD AND COMPOSITION FOR REGULATING
TITLE OF INVENTION: APOPTOSIS
HUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON 6 FORESTER
STREET: 755 APP MILL Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 13.84: Score 16.6; DB 3; Length 40; Best Local Similarity 64.1%; Pred. No. 2.9e+03; Matches 25; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                       Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
14.0%; Score 16.8; DB 3; Length 3
Best Local Similarity 75.0%; Pred. No. 2.2e+03;
Matches 21; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READMALE FORM:
KEDIUM TYPE: FLOPPY disk
KEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTION DATA:
APPLICATION DATE: 13-FEB-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: KONSKI, ANTOINETTE F.
REGISTRATION NUMBER: 2044-21036.00
TELEFAX: (413) 494-0792
TELEPHAE: (413) 494-0792
TELEFAX: (413) 494-0792
TELEFAX: (105) 494-0792
TELEFAX: A DOBAIT

INFORMATION POR SEO ID NO: 2:
SEQUENCE CHRARCTERISTICS:
TELETHUM: A DASE PAIFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7# GTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3) GTTCCTGAAGCTGACTGTTTGGGATCCA 4
                                                             ATTORNEY/AGENT INFORMATION:
NAME: BROOKES, A Anders
REGISTRATION WHEER: 36,373
REFERENCE/DOCKET NUMBER: PB340P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8512
INFORMATION FOR SEQ ID NO: 323:
SEQUENCE CHARACTERISTICS:
LYPE: | nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 40 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
  PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                  . TOPOLOGY: linear
US-08-961-083-323
```

ò

ö

Gaps

14 GACCCTCCTAACCCACACCTCATTATCCCCACTCCAGAG 52

```
0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Choi et. al.
TITLE OF IMPRINTION: Streptococcus pncumoniae Antigens and Vaccines MUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSER: Human Genome Sciences, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER REAMABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
CURSTATABLE: Paracitum Release #1.0, Version #1.25
CLASSIPICATION NUMBER: US/09/280.270A
FILING DATE: 17-APR-1995
ATTOMATION FORMATION:
REFERENCE/COCKET INCHER: 36.24
REFERENCE/COCKET INCHER: 55.25-0015/peclus
TELEPHONE: (650) 324-0860
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACIEMISTICS:
CLENTH: 37 base pairs
TYPE: nucleic acidle
STAMPEDINGS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery March

14.24: Score 17: DB 4: Length 37:
Best Local Similarity 69.78: Pred No. 2e-03:
Matches 23: Conservative 0: Mismatches 10: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSER: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
CITY: Rockville
COUNTY: USS.0
COMUTER: WASYLOAD
COMUTER: WASYLOAD
COMUTER: WASYLOAD
COMPUTER: Disketc, 3.50 inch, 1.4Mb storage
COMPUTER: By vectra 486/33
COMPUTER: Disketc, 3.50 inch, 1.4Mb storage
COMPUTER: By vectra 486/33
COMPUTER: Disketc, 3.50 inch, 1.4Mb storage
COMPUTER: By vectra 486/33
COMPUTER: By vectra 486/33
COMPUTER: APPLICATION DATA:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,083
GENERAL INFORMATION:
APPLICANT: MACCYICZ. Stephen C.
TITLE OF INVENTION: DNA Scquencing by Parallel
Oligonuclectide Extensions
                                                                                                                                                                                                                CORESPONDENCE ADDRESS:
CORDORESSEE: Deblinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16 CCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 CTCTCCCTTCCCTCTCCTCCCTCTCCCCTCTCC 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: Linear SEQUENCE DESCRIPTION: SEQ ID NO: 1: US-09-280-270A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . Sequence 323, Application US/08961083
: Patent No. 6159469
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                                                                                                                                                                                                                                                                              94306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
US-08-961-083-323/c
                                                                                                                                                                                                                                                                                                                                                                                                              .:
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                             Ouery Match 14.2%; Score 17; DB 1; Length 37; Best Local Similarity 69.7%; Pred. No. 2e+03; Matches 23; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         J4.2%: Score 17; DB 2; Longth 37; DB 2; Longth 37; DB 2t Local Similarity 69.7%; Pred. No. 2e-03; DB 44ches 13; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1, Application US/08872446

Patent No. 5569119:
GENERAL IMFORMATION:
TUTLE OF INVENTION: DIA Sequencing by Parallel
TITLE OF INVENTION: DIA SEQUENCING BY PARALLEL
TOTAL SEQUENCING BY PARALLEL
TITLE OF INVENTION: DIA SEQUENCING BY PARALLEL
TOTAL SEQUENCING BY PARALLEL
TITLE OF INVENTION: DIA SEQUENCING BY PARALLEL
TITLE OF INVENTION: DIA SEQUENCING BY PARALLEL
TITLE OF INVENTION: DIA SEQUENCING BY PARALLEL
TOTAL SEQUENCING BY PARALLEL
TOTAL BY PARALLEL
TITLE OF INVENTION: DIA SEQUENCING BY PARALLEL
TOTAL BY PARALLEL
TITLE OF INVENTION: DIA SEGUENCING BY PARALLEL
TOTAL BY 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IIP: 94306
COMPUTEN READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTEN: IRAM FO COMPALIANS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION NUMBEN: US/08/08/972,446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 CCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 CTCTCCCTTCCTCTCCTCTCTCTCTCTCTCT 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION WHERE: US 08/424,663
FILING DATE: 17-APR-1995
ATTORNEY/AGENT THYORMATO:
NAME: Powers, Vincent M.
REGISTRATION WIMBER: 36,246
REFERENCE/DOCKET NOMBER: 5525-0015/peolus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 1, Application US/0928027CA
; Patent No. 6306597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELERAT. (550) 324 -0860
INFORMATION FOR SED ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 base pairs
ITPE: nucleic acid
STRANDEDNESS: single
                                    INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 nucleolides
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPOLOGY: linear
                                                                                                                                                                                                                         ; TOPOLOGY: linear
US-08-424-663-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-280-270A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-872-446-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-872-446-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

```
WEAULI 1. Application US/08424663
Sequence 1. Application US/08424663
Sequence 1. Application US/08424663
Sequence 1. Application US/08424663
Sequence 1. Application:
Sequence 1. Application:
Sequence 1. Application:
Sequence 2. Sequencing by Stepwise Extension with Oligonucleotide B ITILE OF INVENTION: DNA Sequencing by Stepwise Extension with Oligonucleotide B CORRESPONDERS:
Sequence 2. Sequencing by Stepwise Extension with Oligonucleotide B CORRESPONDERS:
Sequence 2. Sequencing by Stepwise Extension with Oligonucleotide B CORRESPONDERS:
Sequence 3. Sequencing by Stepwise Extension with Oligonucleotide B CORRESPONDERS:
STREET: 21890 Rucker Drive Correspondence Correspond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 14.2%; Score 17; DB 4; Length 30; Best Local Similarity 100.0%; Pred. No. 1.8e+03; Matches 17; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM compatible
OPERATING SYSTEM: Windows 3.1/DOS 5.0
SOFTWARE: Microsoft Word for Windows, vers. 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/424,663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: All C's are 2'-NH2 cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ); OTHER INFORMATION: All U's are 2'-NH2 uracil
US-08-687-421-145
                               APPLICATION NOTES.

FILING DATE: 28-MARCH-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,333

FILING DATE: 11-NOVEMBER-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/214,131

FILING DATE: 10-JUNE-1991

PROGRAPHICATION NUMBER: 07/536,428

FILING DATE: 11-JUNE-1990

ATTORNEY AGENT INFORMATION:
NAME: BAITY J. SWARSON

RECISERNEY LON NUMBER: 33,215

REFERENCY DON NUMBER: NEXOT/PC

TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1993-333

TELECOMMUNICATION 1993-433

INFORMATION POR SEQ ID NO: 145:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs

TYPE: nucleic acid
STRANDEDNESS: SIGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NEX07/PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inch diskette
                       APPLICATION NUMBER: 08/219,012
FILING DATE: 28-MARCH-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY AGENT INFORMATION:
NAME: Stephen C Macevicz
REGISTRATION NUMBER: 30,285
REFERENCE/MOCNET NUMBER: peo;
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 638-552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29 CCTCCTAACCCACACC 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match, 14.2%; Score 17; DB 1; Length 30; Best Local Similarity 100.0%; Pred. No. 1.8e+03; Matches 17; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-687-421;145/c
| Sequence 145, Application US/08687421
| Sequence 145, Application US/08687421
| Patent No. 6177557
| GENERAL INFORMATION:
| APPLICANT: Gold, Larry
| APPLICANT: Tasset, Diane | APPLICANT: Tasset, Diane | APPLICANT: Tasset, Diane | TITLE OF INVENTION: HIGH-APPLINITY LICANDS OF BASIC | TITLE OF INVENTION: THROMBIN | TITLE OF INVENTION: THROMBIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Diskette, 3.5 inch, 1.44 MB storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE: OTHER INFORMATION: All C's are 2'-NH2 cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTHER INFORMATION: All U's are 2'-NH2 uracil
US-08-384-708a-145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Swanson & Bratschun, L.L.C. STREET: 84100 E. Prentice Avenue, Suite 230 STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM
COMPUTER: IBM COMPATILL
COMPUTER: MS-DOS
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/687,421
FILIAGIOATE: 08-MAY-1996
CLASSIFICATION A 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/195,005
**TITING DATE: 10-FEBRUARY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/155,005
FILLMG DATE: 10-FEBRUARY-1994
CLASSITCATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILLMG DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILLMG DATE: 11-JUNE-1990
ATORNEY/AGENT INFORMATION:
NAME: BATTY J. SWANGON
REGISTRATION NUMBER: 33.215
REFERENCE/COCKET UNBER: NEXO7/D
RELECHMUNICATION INFORMATION:
TELEPHONE: (303) 793-3433
INFORMATION FOR SEQ ID MO: 145:
SEQUENCE! CHARACTERISTICS:
LENGTH: 30 Dase pairs
TYPE: (AUCH: 30 Dase pairs
TOPPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 10-FEBRUARY-19
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 22-APRIL-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 80111
COMPUTER, READABLE FORM:
MEDIUM TYPE: DISKELLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
qo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ó
```

```
TITLE OF INVENTION: DNA Sequencing by Parallel Oligonucleotide Extensions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO: 9: US-09-280-270A-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                        ZIP: 94306
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                              115.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                 Ouery Match 14.3%; Score 17.2; DB 4; Length 37; PB est Local Similarity B6.4%; Pred. No. 1.7e-0; Merches 19; Conscryative 0; Mismarches 3; Indels 0; Gaps Metches 19; Conscryative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0: Caps
                                                                                                                                7 OTHER INFORMATION: Description of Combined DNA/RNA Wolccule: Primer US-09-383-143-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Whatch 14.31: Score 17.2: DB 2: Length 45:
Local Similarity 65.8% Pred. No. 1.8e+03: Indels
hes 25: Conservative 0: Mismarkches 13: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 AGTGACCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Macevicz, stephen C.
TITLE OF INVENTION: DAM Sequencing by Parallel
TITLE OF INVENTION: DISGONACIOCINE Extensions
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESSS:
ADDRESSEE: Deblinger & Associates
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21P. 94306
COMPUTER READABLE FORM:
MEDIUH TIPE: FIAPPOY disk
COMPUTER: IBM FO COMPALISA
OPERATING SYSTEM: PC-DOS/MS-DOS
OSTWARE: Petentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA
APPLICATION NUMBER: US/08/872,446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UNDER: US 08/124,663
FILING DATE: 17-APR-1995
ATTORNEY, AGRET FUNCHALION:
NAME: POWERS, VAINCENT H.
REGISTRATION WINERER: $5.246
REFERENCE/COCKET MINBER: $5.25-0015/peolus
TELECOMMUNICATION INPORMATION:
TELECOMMUNICATION INPORMATION INPORMATION:
TELECOMMUNICATION INPORMATION:
TELECOMMUNIC
                                                                                                                                                                                                                                                                                                                                                                                                                      89 TIGGCTICCATAGCTGCTGAAT 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-280-270A-9/C
: Sequence 9, Application US/09280270A
: Patent No. 6306597
: GENERAL INFORMATION:
: APPLICANT: Macevicz, Stephen C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32 Tracettectracetechar 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 9, Application US/08872446
Patent No. 5969119
GENERAL INFORMATION:
          TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-872-446-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Loca
Natches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                ð
```

```
0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               overy Match

14.35. Score 17.2: DB 4: Length 45:
Best Local Similarity 55.8t., Prod. Mo. 18e-018.
Marches 25: Conservative 0: Mismatches 13: Indels
                                                                                                                                                                                                                                            CORDING TYPE: Floppy disk
COMPUTER: The PC compatible
COMPUTER: The PC compatible
CORENT APPLICATION DATA:
APPLICATION NAME: PC-DOS/AS-DOS
CURRENT APPLICATION DATA:
APPLICATION NIMBER: US/05/280,270A
FILLEW DATE: 29-Nor-1999
CLASSIFICATION: CURNOWIN-
PRIOR APPLICATION: CURNOWIN-
PRIOR APPLICATION NUMBER: US 84.44.663
FILLEW DATE: 17-ARP: 1995
ATTOWNEY/AGENT INFORMATION:
ATTOWNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MS-001-80

Sequence 145, Application US/OB384708A

PATENT NO. 563986B

GENERAL INFORMATION

APPLICANT: Gold, Larry

APPLICANT: Janjic, Neboja

TITLE OF INVENTION: High-Affinley RNA Ligands of Basic

TITLE OF INVENTION: Fibroblast Growth Factors

NUMBER OF SEQUENCES: 227

CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MG storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/U8/384,708A
CLASSIFICATION: 536
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: POWERS, Vincent N.
REGISTRATION NUMBER: 56.246
REFERENCE/DOCKET WIDBER: 5525-0015/peolus
TELECOMMUNICATION INFORMATION:
TELEPRONE: (650) 324-0860
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 AGTGACCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 1390000100 CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
STREET: 350 Cambridge Avenue, Suite 250
STATE: A Lo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
CONTWY: USA
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 33, Application US/09383143

Patent No. 6372429

GENERAL INFORMATION

TITLE OF INVENTION: METHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS

TITLE OF INVENTION: METHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS

TITLE OF INVENTION: METHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS

TITLE OF INVENTION: METHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS

CURRENT APPLICATION NUMBER: US/09/383,143

CURRENT APPLICATION NUMBER: PQF9-08-25

PRIOR PAPLICATION NUMBER: PQF9-08-25

NUMBER OF SED ID NOS: S0

SOFTWARE: PATENTING VEF: 2.1

SED ID NO 33

LENGTH: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 25, Application US/09383143

Patent No. 6372429

GENERAL INFORMATION:
TITLE OF INVENTION: METHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS
FILE REPRESENEME: 1022A7TO 3.3-061 CONT
CURRENT APPLICATION NUMBER: US/09/383,143

CURRENT FILING DATE: 1999-08-25

PRIOR FILING DATE: 1999-02-26

NUMBER OF SEQ ID NOS: 50

SOFTWARE: PATENTIN VEY: 2.1

SEQ ID NO 25

LENGTH: 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Description of Artificial Sequence: Primer US-09-383-143-33
                                                                                                                                                                                                                                                                                                                                                                                                              Length 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           84 ATCGATTGGCTTCCATAGCTGCTGAATTGCAGTTTAG 120
                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 14.8%; Score 17.8; DB 2; Best Local Similarity 67.6%; Pred. No. 1.1e+03; Matches 25; Conservative 0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
14.3%: Score 17.2; DB 4;
Best Local Similarity 73.3%; Pred. NO. 1.7e+03;
Matches 22; Conservative 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89 ITGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "Oligonucleotides" HYPOTHERICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601-1-050
NAME: Jackson Esq., David A. REGISTRATION NUMBER: 26.74 ENTERENCE/DOCKET NUMBER: 601.1 TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: 701-407-5800 TELEPHONE: 201-343-1684
                                                                                                                  TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-383-143-33/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-383-143-25/C
                                                                                                                                                                                                                                                                                                                                                              US-08-683-743-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14.8%; Score 17.8; DB 4; Length 38; 67.6%; Pred. No. 1e+03; tive 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 9, Aprilation US/08683743
Patent No. | 5843697
GENERAL INFORMATION:
APPLICANT: Pestka, Sidney
APPLICANT: Kotenko, Serguei
TITLE OF INVENTION: CYTOKINE RECEPTOR SIGNAL TRANSDUCTION
TITLE OF INVENTION: CYTOKINE RECEPTOR SIGNAL TRANSDUCTION
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
STREET: Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
CCMPUTER: IBM PC Compatible
SOPFAHING SYSTEM: PC CDS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT|APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    52 GGGATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGA 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 GGGATCCACGCGTGCCACCGGTACGTAATCGA 38
                                                                                                               WEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEO Version 2.0b
CURRENT APPLICATION DATA:
| APPLICATION DATA: |
| APPLICATION DATA: |
| APPLICATION NUMBER: US/09/638,202A
| FILING DATE: 11-Aug-2000
| REDISTANTION DATA: |
| FILING DATE: 10-Aug-2000
| REDISTANTION NUMBER: 37,748
| REGISTANTION NUMBER: 37,748
| REGISTANTION NUMBER: 37,748
| REGISTANTION NUMBER: 37,748
| TELECOMMUNICATION INFORMATION: |
| TELEFONE: (612) 373-6900
| TELEFAR: (612) 339-3061
| INFORMATION FOR SED ID NO: 23:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HODOLOGY: linear MOLECULE TYPE: CDNA HYPOTHERICAL: NO ANTI-SENSE: NO FRAGMENT TYPE: CUNKNOWN: ORIGINAL SOURCE: SEQUENCE DESCRIPTION: SEO ID NO: 23:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
TORNEY/AGENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: single
                                                                                               COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
     CITY: Minneapolis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 67.64
Matches 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                  NSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-638-202A-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 3
US-08-683-743-9/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

174   14 6   12.2   46   3 US-0B-651-8434-11   Sequence 41, Appl.   175   14 6   12.2   46   4 US-0B-74-559, 55 Sequence 41, Appl.   176   12.2   46   4 US-0B-74-559, 55 Sequence 41, Appl.   176   12.2   46   4 US-0B-74-10-321-41   Sequence 41, Appl.   178   14 6   12.2   46   4 US-0B-74-519-321-41   Sequence 41, Appl.   179   14 6   12.2   48   1 US-0B-15-1843-37   Sequence 41, Appl.   180   14 6   12.2   48   4 US-0B-74-559, 55 Sequence 61, Appl.   181   14 6   12.2   48   4 US-0B-74-559, 55 Sequence 70, Appl.   182   14 6   12.2   48   4 US-0B-74-559, 55 Sequence 70, Appl.   184   14 6   12.2   48   4 US-0B-75-09-11   Sequence 11, Appl.   185   14 6   12.2   48   4 US-0B-75-09-11   Sequence 11, Appl.   185   14 6   12.2   48   4 US-0B-75-09-11   Sequence 11, Appl.   185   14 6   12.2   49   4 US-0B-75-28-11   Sequence 11, Appl.   187   14 6   12.2   49   4 US-0B-75-28-11   Sequence 11, Appl.   187   14 6   12.2   49   4 US-0B-75-28-11   Sequence 11, Appl.   187   14 6   12.2   49   4 US-0B-75-59-11   Sequence 153, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   1 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, Appl.   187   14 6   12.2   50   4 US-0B-75-59   Sequence 253, App	TYPEE DAM  TORGANISH: Homo sapiens  US-09-306-998-35  Query Hatch  Gust Local Similarity 67-68: pred No. 18-03;  Matches 25: Conservative 0: Mismatches 12: Indels 0: Gaps 0: 1   11   11   11   11   11   11   11
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
US-09-424-620B-11 US-09-424-620B-11 US-08-01-702-15 US-09-051-702-15 US-09-051-702-15 US-09-05-343-5 US-09-03-16-341-5 US-09-03-16-341-5 US-09-03-16-341-5 US-09-03-16-341-5 US-08-19-04-14-17-2 US-08-19-04-14-17-2 US-08-19-04-14-17-2 US-09-18-14-17-2 US-09-18-14-17-2 US-09-18-14-17-2 US-09-18-14-17-2 US-08-18-14-17-2 US-08-18-14-17-2 US-08-18-14-17-2 US-08-18-14-17-2 US-08-18-17-17-2 US-08-18-17-17-2 US-08-18-17-17-2 US-08-18-17-17-2 US-08-18-17-17-2 US-08-18-17-17-2 US-08-18-17-17-17-2	0.00 0.00
22222222222222222222222222222222222222	
	0 1550 0 1550 0 1560 0

us-09-676-436-3\_copy\_3264\_3383.rni

Sequence 12, Appl Sequence 2, Appli Sequence 3, Appli Sequence 4, Appli Petent No. 5185244 Sequence 6, Appli Sequence 71, Appli Sequence 71, Appli		00000000000000000000000000000000000000	sequence 27, Appl Sequence 55, Appl Sequence 55, Appl Sequence 27, Appl Sequence 27, Appl Sequence 87, Appl Sequence 8, Appli Sequence 8, Appli Sequence 5, Appli Sequence 5, Appli Sequence 5, Appli Sequence 6, Appli Sequence 14, Appli Sequence 14, Appli Sequence 14, Appli Sequence 116, Appli
22 13 5 5 11 2 2 1 13 5 2 1 13	66 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	66 13.0 66 13.0 66 13.0 67	15.4 12.8 39 1 US-08-440-7878-27 15.4 12.8 39 2 US-08-349-13155 15.4 12.8 39 2 US-08-349-13155 15.4 12.8 39 4 US-09-156-767-6 15.4 12.8 39 5 PCT US91 O7141-27 15.4 12.8 39 5 PCT US91 O7141-55 15.4 12.8 42 4 US-08-321-844 8 15.4 12.8 42 4 US-09-321-844 8 15.4 12.8 42 4 US-09-426-153-5 15.4 12.8 42 4 US-09-426-153-5 15.4 12.8 42 4 US-09-516-945-5 15.4 12.8 42 4 US-09-516-757-5 15.4 12.8 50 1 US-09-618-111-56-512-11 15.2 12.7 28 4 US-09-516-721-184 15.2 12.7 28 4 US-08-58-823-11 15.2 12.7 28 4 US-08-51-134 15.2 12.7 28 4 US-08-51-134 15.2 12.7 28 4 US-08-51-134 15.2 12.7 28 4 US-08-51-08-146 15.2 12.7 28 4 US-08-51-08-11-56-51-11 15.2 12.7 28 4 US-08-51-08-11-11-56-51-11-56-51-11-11-56-51-56-51-
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
GenCore version 5.1.6  Copyright (c) 1993 - 2003 Compugen Ltd.  - hucleic search, using sw model  June 17, 2003, 21:00:25 : Search time 64 Seconds  (without alignments)	US-09-676-436-3_COPY_3264_3383 e: 120 l 1 Lcgatgccatagtgaccctcgctgctgaattgca. l 1 Lcgatgccatagtgaccctcgctgctgaattgca. c	seq length: 0 seq length: 5 seq length: 50 sing: Minimum Match 1004 Listing first 200 summaries Listing first 200 summaries Listing first 200 summaries  Issued_Patents_NA:*  I	No. 2
OM nucleic - Run on:	Scc E: talt d:	Maximum DB sequence of the seq	Pred - N - S - S - S - S - S - S - S - S - S

Wed Jun 18 11:06:24 2003

```
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same File Refrence: 10466-14 CURRENT APPLICATION WINBER: US/09/902,613 CURRENT FILING DATE: 2001-12-14 Prior application data removed. Check file wrapper or PALM. NUMBER OF SEQ 1D NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Oligonucleotide probe US-09-902-615-16
                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: oligonucleotide probe
US-09-907-979-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery March 13 0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.88; Pred. Mb. 2.74-04. He Hatches 18; Conservative 0; Mismatches 4; Indels
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILLING DATE: 1999-12-16
PRIOR FILLING DATE: 1999-12-20
PRIOR FILLING DATE: 1999-12-20
PRIOR FILLING DATE: 1999-12-20
PRIOR FILLING DATE: 1999-12-20
PRIOR FILLING DATE: 1999-11-20
PRIOR FILLING DATE: 2000-01-05
NUMBER OF SEQ ID MOS: 423
SEQ ID NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 100
US-09-902-615-16/C
US-09-902-615-16/C
SEQUENCE IS Application US/09902615
Publication No. US20030092002A1
CENERAL INFORMATION:
APPLICANT Genetech, Inc.
APPLICANT: Betself, David
APPLICANT: Betself, David
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
TOTAL CANT: Filvaroff, Ellen
TOTAL CANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Goddard, A.
Goddard, A.
Granaldi, Christopher J.
Grimaldi, Christopher J.
Grimaldi, Christopher J.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Wather, Jennie P.
Pan, James
Panni, Nicholas F.
Poni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Stewart, Timothy A.
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CGATCGGATGCCACAGCTGCTC 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fong, Sherman
Gao, Wel-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
```

```
ö
Query Match 13.0%; Score 15.5; DB 9; Lorgth 50; Best Loral Similarity 8184; Pared No. 2.7e=04; Matches 18; Conscryative 0; Mismatches 4; Indels 0; Gaps
                                                                                                                                                                                                         Search completed: June 17, 2003, 22:50:38
Job time : 125 secs
                                                                                       86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                    29 CCATCGGATGCCACAGCTGCTG 8
                                                                                                                                  g
                                                                                             õ
```

```
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: ACIDS Encoding the Same
CURRENT APPLICATION NURBER: US /05/09/0414
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-36
PRIOR FILING DATE: 1999-07-36
PRIOR FILING DATE: 1999-07-36
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-11-05
PRIOR FILING DATE: 1999-11-05
PRIOR FILING DATE: 1999-11-05
PRIOR FILING DATE: 1999-11-06
PRIOR PRIO
                                                                                                                                          Query Match
Best Local Similarity 81.8%; Pred. No. 2.7e+04;
Matches 18; Conservative 0: Mismatches 4; Indels
; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-713-16
                                                                                                                                                                                                                                                                                                                                                 86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                        29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gerber, Hanspeter
Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           an, James
aoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wel-Qlang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                            ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ANT Tunas, Daniel Alliams, P. Mickey Williams, P. Mickey Williams, Williams, P. Mickey William, I. Wood, William, I. William, I. William, I. William, I. William, I. William, 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APERITOR. ACIDS EDGODING CHE SAME
CURRENT APPLICATION NUMBER: US/09/902,713
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/09/902,713
CURRENT FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PC7/US00/0414
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: PC7/US99/2094
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21089
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/USS9/28313
FILING DATE: 1999-11-30
APPLICATION NUMBER: PCT/USS9/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ILING DATE: 1999-12-02
PPLICATION NUMBER: PCT/US99/28565
ILENG DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US99/28214
FILING DATE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/US99/30395
PRIOR FILING DATE: 1999-12-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kljavin, Ivar J.
                                                                                                                                                                                                                                                                                                                                                                                                  Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Goddard, A.
```

```
OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity B1.0%; Pred. No. 2.7e+04; Madrotes 10; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CPHER INFORMATION: Synthetic Gligonuclectide Probe US-09-902-634-16
                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Acids Encoding the Same File Reference: 10466-14

CURRENT APPLICATION NUMBER: US/09/902,634

CURRENT PILING DATE: 2000-90-10

PRIOR FILING DATE: 2000-90-18

PRIOR FILING DATE: 1099-00-918

PRIOR PAPLICATION NUMBER: US 60/145,698

PRIOR FILING DATE: 1999-07-26

PRIOR FILING DATE: 1999-07-26

PRIOR FILING DATE: 1999-07-26

PRIOR FILING DATE: 1999-09-08

PRIOR FILING DATE: 1999-09-08

PRIOR FILING DATE: 1999-09-08

PRIOR FILING DATE: 1999-09-08

PRIOR PLICATION NUMBER: PCT/US99/20594

PRIOR PAPLICATION NUMBER: PCT/US99/20594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR PELING DATE: 1999/12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR PILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 2000-31-05
NUMBER OF SEQ 1D NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US89/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NÜMBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           86 CGATTGGCTTCCATAGCTGCTG 107
Grimaldi, Christopher J.
Gurney, Austin I.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 98
2-09-902-713-16/c
: Sequence 16, Application US/09902713
; Publication No. US20030082541A1
                                                                                                                                                                                                                                                   ams, P. Mickey
William, I.
                                                                                                                                                                         Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                           Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                     Stewart,
Tumas, Da
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PPLICANT WILLIAMS, P. Mickey
PPLICANT WOOD, William, I.
TILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity Bl.8%; Pred. No. 2.7e-04, Marches 18; Conservative 0; Mrsarches 4; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Oligonucleotide probe US-09-905-075-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,075
CURRENT FILMO DAIL: 2001-07-13
Prior application data removed. Check file wrapper or PALM.
NUMBER OF SE0 ID NOS: 423
      RESULT 96
US-09-905-075-16/C
US-09-905-075-16/C
US-09-105-010-05-16/C
PUBLICALION NO. US20030077583A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkemazi, ANI
APPLICANT: Batchin, David
APPLICANT: Batchin, David
APPLICANT: Eaton, David
APPLICANT: Eaton, David
APPLICANT: Eaton, David
APPLICANT: Eaton, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 16, Application US/09902634 Publication No. US20030082540Al GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan, James
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                       Fong, Sherman
Gao, Wel-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                      Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Askenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Eaton, Dav Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                             Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -09-902-634-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                O ID NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
```

```
APPLICANT: UNILIAMS, DADALE
APPLICANT: WilliamS, DADALE
TITLE OF INVENTION: Accide Enceding the Same
CURRENT APPLICATION WINBER: US/09/902,759
CURRENT APPLICATION WINBER: US/00/4014
PRIOR FILING DATE: 1909-07-20
PRIOR FILING DATE: 1909-09-10
PRIOR FILING DATE: 1909-09-10
PRIOR FILING DATE: 1909-09-11
PRIOR FILING DATE: 1909-09-12
PRIOR FILING DATE: 1909-01-12
PRIOR FILING DATE: 1909-01-12
PRIOR PRIOR PAPLICATION WUNBER: PCT/US99/2019
PRIOR FILING DATE: 1909-01-12
PRIOR PELLOR FILING DATE: 1909-11-20
PRIOR PELLOR FILING DATE: 1909-11-20
PRIOR PELLOR FILING DATE: 1909-11-20
PRIOR PELLOR PELLOR WUNBER: PCT/US99/20095
PRIOR PELLOR PELLOR WUNBER: PCT/US99/20095
PRIOR PELLOR PELLOR WUNBER: PCT/US99/20099
PRIOR PELLOR WUNBER: PCT/US99/20099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Synthetic : OTHER INFORMATION: oligonucleotide probe US-09-902-759-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                  Godowski, Paul J.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29 CGATCGGATCCCACACCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 뎡
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic FILE REFERENCE: 1046-14
CURRENT FILING DATE: 2001-1-18
PRIOR APPLICATION NUMBER: US/09/907,575
PRIOR APPLICATION NUMBER: US/09/007,618
PRIOR FILING DATE: 2000-02-2
PRIOR FILING DATE: 1000-02-2
PRIOR FILING DATE: 1000-02-2
PRIOR FILING DATE: 1099-07-06
PRIOR FILING DATE: 1099-07-05
PRIOR FILING DATE: 1099-07-05
PRIOR FILING DATE: 1099-07-05
PRIOR FILING DATE: 1099-07-05
PRIOR FILING DATE: 1099-09-06
PRIOR FILING DATE: 1099-09-06
PRIOR FILING DATE: 1099-09-11
PRIOR PRILICATION NUMBER: PCT/US99/2004
PRIOR FILING DATE: 1099-09-11
PRIOR APPLICATION NUMBER: PCT/US99/2009
PRIOR APPLICATION NUMBER: PCT/US99/2009
PRIOR APPLICATION NUMBER: PCT/US99/2014
PRIOR PLILING DATE: 1099-11-20
PRIOR PLILING DATE: 1099-11-20
PRIOR PLILING DATE: 1099-11-20
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/3099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE: O'THER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Oligonucleotide probe US-09-907-575-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match
13.0%; Score 15.6; DB 9; Length 50;
Best Local Similarity 81.8%; Prcd. No. 2.7e+04;
Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        86 CGATTGCCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16, Application US/09902759
Publication No. US/0030077654A1
GENERAL INFORMATION:
APPLICANT Genentech, Inc.
APPLICANT BOLSTEIN, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Geneatech, Inc.
Ashkenazi, Avi
BOtstein, David
Desnoyers, Luc
Eaton, Dan L.
Forrara, Napoleone
Forg, Sherman
Gao, Wel-Qlang
Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM; Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-902-759-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 95
```

q õ

```
PRIOR FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 94
US-09-907-575-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Williams, P. Mickey
APPLICANT: Wood, Williams, I.
TITLE DE INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE DE INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                4: Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic is OTHER INFORMATION: Oligonocleotide probe US-09-909-064-10
                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
13.0%; Score 15.6; UB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04, Wartches 18; Conservative 0; Misnatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/905.088
CURRENT FILING DATE: 2001.07.19
REIOR FILING DATE: 2001.07.19
REIOR FILING DATE: 2001.09.18
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000.03.18
PRIOR FILING DATE: 2000.03.18
PRIOR FILING DATE: 1999.07.07
PRIOR FILING DATE: 1999.07.07
PRIOR FILING DATE: 1999.07.22
PRIOR FILING DATE: 1999.07.22
PRIOR FILING DATE: 1999.07.28
PRIOR FILING DATE: 1999.07.28
PRIOR FILING DATE: 1999.07.28
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR TILING DATE: 1999-11-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-112-0
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PLILNG DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US09/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ 1D NOS: 423
SEQ 1D NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 16, Application US/09905088

GENERAL INFORMATION:
APPLICANT Generatech, Inc.
APPLICANT Seneratech, Inc.
APPLICANT Senerate, Luc
APPLICANT Settein, David
APPLICANT Secretain, David
APPLICANT Secretain, David
APPLICANT Eacon, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          86 CGATTGCCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gurney, Austin L.
Hilan, Keneth, J.
Kijath, Ivar J.
Mather, Jennie P.
Pen, James
Pooni, Nicholas F.
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 93
US-09-905-088-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred No. 2.78-4%; Metches 18; Conservative 0; Mismatches 4; Indels Metches 18; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-088-16
                                                PRIOR APPLICATION NUMBER: PCT/US99/21091
PRIOR FILING DATE: 1999/209-15
PRIOR FILING DATE: 1999/209-15
PRIOR APPLICATION NUMBER: PCT/US99/2164
PRIOR APPLICATION NUMBER: PCT/US99/2164
PRIOR APPLICATION NUMBER: PCT/US99/21089
PRIOR FILING DATE: 1999-10-05
PRIOR PLICH DATE: 1999-10-05
PRIOR PLICH DATE: 1999-11-39
PRIOR FILING DATE: 1999-11-39
PRIOR FILING DATE: 1999-11-30
PRIOR PAPLICATION NUMBER: PCT/US99/2864
PRIOR FILING DATE: 1999-12-02
PRIOR PAPLICATION NUMBER: PCT/US99/2009
PRIOR APPLICATION NUMBER: PCT/US00/C0219
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1990-12-20
PRIOR FILING DATE: 2000-01-05
APPLICATION NUMBER: PCI/US99/20944 FILING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goddeski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Hilan, Your J.
Wather, Jennie P.
Pan, James
Pan, Nicholas F.
Roy, Margaret, Ann
Stewart, Timothy A.
Tumes, Daniel
Williams, P. Hickey
Wood, Hilliam, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : Sequence 16, Application US/099C7575; Publication No. US20030073079A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT Generech, Inc.
APPLICANT Scenerech, Inc.
APPLICANT BOISTEIN AU
APPLICANT BOISTEIN AU
APPLICANT EXTON DAN L.
APPLICANT EXTON DAN L.
APPLICANT FERITAR, NAPOLEON
APPLICANT FORMS, Sherman
APPLICANT FORMS, Sherman
APPLICANT GOO, Wel-Qiang
APPLICANT GOO'NEI-Olang
APPLICANT GETPER, HARBREET
APPLICANT GOTHERSON MATY E.
APPLICANT GOTHERSON MATY E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Artificial Sequence
```

```
APPLICANT: Tunnas, Danials. P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, Williams, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT PRILING DATE: 1040-18
PRIOR APPLICATION NUMBER: US/09/909,064
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR RILING DATE: 1999-07-07
PRIOR PAPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR PELING DATE: 1999-07-08
PRIOR PELING DATE: 1999-09-08
PRIOR PLING DATE: 1999-09-08
PRIOR PLING DATE: 1999-09-08
PRIOR PLING DATE: 1999-09-13
PRIOR PLING DATE: 1999-09-13
PRIOR PLING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR PLING DATE: 1999-09-16-05
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR PRILING DATE: 1999-09-16
PRIOR PRILING DATE: 1999-09-16-05
                                                                                                                                                 ö
                                                                                                                                                        Caps
                                                                                                                                                 ö
                                                                                       Length 50;
                                                                                                                                                 4; Indels
; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-381-16
                                                                                       Ouery Match 13.0%; Score 15.6; DB 9; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR PPLICATION NUMBER: PCT/US99/28113
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
                                                                                                                                                                                                        86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                            29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                   RESULT 92
US-09-903-064-16/c
: Sequence 16, Application US/0990964
: Publication No. US20030059772A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerritsen, Mary E. Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wei-Oiang
                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVERTION: Secreted and Transmembrane Polypeptides and Nucleic Title OF INVERTION: Acids Encoding the Same Polypeptides and Nucleic UTLE OF INVERTION: Acids Encoding the Same Polypeptides and Nucleic UTLE REFERENCE: 10466-14
UNRENT APPLICATION NUMBER: US/09/905.381
UNION APPLICATION NUMBER: 09/665.350
RIOR PILING DATE: 2000-09-18
RIOR PELING DATE: 2000-09-22
RIOR PELING DATE: 2000-02-22
RIOR PELING DATE: 1999-07.07
RIOR PELING DATE: 1999-07.07
RIOR PELING DATE: 1999-07.07
RIOR PELING DATE: 1999-07.07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1999-12-02
PRIOR PULING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR RPHING DATE: 1999-12-20
PRIOR RPHING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R FILENG DATE: 1999-09-13

**P APPLICATION NUMBER: PCT/US99/21090

**R FILENG DATE: 1999-09-15

**R FILENG TOWN NUMBER: PCT/US99/23089

R FILENG DATE: 1999-09-15

R FILENG DATE: 1999-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R PEPLICATION NUMBER: PCT/US99/28214
R FILLING DATE: 1999-11-29
R APPLICATION NUMBER: PCT/US99/28313
R APPLICATION NUMBER: PCT/US99/28313
R FILLING DATE: 1999-11-30
R PLILING DATE: 1999-12-02
R APPLICATION NUMBER: PCT/US99/28564
R APPLICATION NUMBER: PCT/US99/28565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILEM DATE: 1999-07-26
APPLICATION NUMBER: US 60/146,222
FILEM DATE: 1999-07-28
APPLICATION NUMBER: PCT/US99/20594
FILEMS DATE: 1999-09-08
APPLICATION NUMBER: PCT/US99/20944
                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Williams, P. Mickey Wood, William, I.
                                                                                                                                                                              Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kljavin, Ivar J.
Mather, Jennie P.
GENERAL INFORMATION:
APPLICANT Genentech, Inc.
APPLICANT Ashkenazi, Avi
APPLICANT Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 423
SEQ ID NO 16
LENGTH: 50
```

Page 50

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same FILE REPERENCE: 10466-14 CURRENT FILE REPERENCE: 10466-14 CURRENT FILE TOTAL OF 1-12 CURRENT FILING SATE: 1056-14 CURRENT FILING DATE: 1066-14 PRIOR FILING DATE: 1002-01-22 PRIOR FILING DATE: 1099-07-07 PRIOR FILING DATE: 1999-07-07 PRIOR FILING DATE: 1999-07-07 PRIOR FILING DATE: 1999-07-08 PRIOR PADILCATION NUMBER: US 60/146,222 PRIOR PADILCATION NUMBER: PS 60/146,222 PRIOR PADILCATION NUMBER: PS 60/146,222 PRIOR FILING DATE: 1999-07-08 PRIOR FILING DATE: 1999-07-08 PRIOR FILING DATE: 1999-07-08 PRIOR FILING DATE: 1999-07-15 PRIOR FILING DATE: 1999-01-13 PRIOR FILING DATE: 1999-01-13 PRIOR FILING DATE: 1999-11-29 PRIOR FILING DATE: 1999-11-20 PRIOR FILING PRIOR FILING PRIOR PRIOR PRIOR PRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Oligonuclectide probe
US-09-904-553-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match 13.04; Score 15.6; DB 9; Length 50: Best Local Similarity 81.84; Pred. No. 2.7e+qu. Harches 18. Conservative 0: Mismatches 4; Indels Harches 18. Conservative 0: Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE: 1999-12-02

PRIOR FILING DATE: 1999-12-02

PRIOR FILING DATE: 1999-12-03

PRIOR FILING DATE: 1999-12-03

PRIOR FILING DATE: 1999-12-05

PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US99/30999

PRIOR PELING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US09/00999

PRIOR APPLICATION NUMBER: PCT/US09/00219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             85 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 91

$4.09-903-381-16/c

Sequence 16, Application US/09905381

; Publication No. US2003005982941
         Gurney, Austin L.
Hillan, Renneth, J.
Hillan, Renneth, J.
Habrier, Jennie P.
Pan, James
Pool, Micholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ 1D NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Owery Match
13.0%; Score 15.6; DB 9: Length 50; Best Local Similarity B1.8%; Pred. No. 2.2-64.6. Marches 16; Conservative 0: Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-925-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-02-27
PRIOR PILLING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-28
PRIOR PELING DATE: 1999-07-38
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-09
PRIOR PELING DATE: 1999-09-16
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR PELING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30091
PRIOR PELING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30091
PRIOR PELING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DS-09-704-30-140/C.
Sequence 16, Application US/09904553
PUblication No. US20030059828A1
GENERAL INFORMATION
APPLICANT Genemeter, Inc.
APPLICANT Ashemazi, Avi
APPLICANT Bocstein, David
APPLICANT Becstein, David
APPLICANT Ferrars, Use
APPLICANT Ferrars, Napoleone
APPLICANT Filvaroff Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 90
US-09-904-553-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT
```

us-09-676-436-3\_copy\_3264\_3383.rnpb

```
APPLICANT: Williams, P. Hickey
APPLICANT: Williams, P. Hickey
APPLICANT: Wood, Milliam, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION: Acids Encoding the Same
CURRENT APPLICATION NUMBER: US/09/907,925
CURRENT FILIAC DATE: 2001-07-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: OLIGonucleotide probe US-09-905-056-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 13.0%; Score 15.6; DB 9; Length 50;
Best Local Similarity 81.8%; Pred. No. 2.7e+04;
Matches 18; Conservative 0; Mismatches 4; Indels
Ferrara, Napoleone
Filvaroff, Ellon
Fong, Sherman
Gao, Wel-Olang
Garber, Hanspeter
Gerter, Hanspeter
Goddard, Amy E.
Goddard, Amst E.
Hillan, Kenneth, J.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Pan, James
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29 CGAFCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 89
US-09-907-925-16/c
; Sequence 16, Application US/09907925
; Publication No. US2030054352A1
; CENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Oan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셙
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT Stewart, Timothy A. APPLICANT Stewart, Timothy A. APPLICANT Tumas, Daniel APPLICANT Williams, P. Mickey APPLICANT WOOD, ##111ams, P. Mickey TITLE OF INVENTION: Sected and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 81.8%; Pred. No. 2.78+04;
Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                  . OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-904-462-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/905,056
CUBRENT FILING DATE: 2002-01-22
PRIOR APPLICATION NUMBER: US/09/905,056
PRIOR FILING DATE: 3000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
      PRIOR FILING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
PRIOR FILING DATE: 2000-01-05
SEQ ID NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DR APPLICATION NUMBER: US 60/146,222

DR FILING DATE: 1999-07-28

DR APPLICATION NUMBER: PCT/US99/20594

DR FILING DATE: 1999-09-08

R APPLICATION NUMBER: PCT/US99/2094

DR FILING DATE: 1999-09-13

PRILING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION WUMBER: PCT/US99/21090
PRIOR FLIAMG DATE: 1999-09-15
PRIOR APPLICATION WUMBER: PCT/US99/21547
                                                                                                                                                                                                                                                                                                                                                                                   86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                            29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 16, Application US/09905056
Publication No. US20030054441A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Earun, wan
Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wel-Olang
Gerber, Hanspeter
Geriltsen, Mary E.
                                                                                                                                                                             TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genentech, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Den L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 88
US-09-905-056-16/c
                                                                                                                                                                                                                                                                                                                                                                                     õ
```

ö

Gaps

0: Gaps

4; Indels

```
Matches 18; Conservative 0: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                           Genentech, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
Perrara, Napoleom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1999-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
FILING DATE: 1999-1
                                                 ò
                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Wickey
APPLICANT: Williams, P. Wickey
APPLICANT: Wood Williams, P. Wickey
ITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITLE REPERENCE: 10466-14
FILE REPERENCE: 10466-14
CURRENT FILIMON NUMBER: US/09/903/943
CURRENT FILIMON NUMBER: US/09/903/943
FRIOR APPLICATION NUMBER: 09/65,350
FRIOR FILIMO DATE: 2001-07-11
FRIOR FILIMO DATE: 1090-09-18
FRIOR FILIMO DATE: 1090-07-07
FRIOR FILIMO DATE: 1099-07-07
FRIOR APPLICATION NUMBER: US 60/145,696
FRIOR FILIMO DATE: 1999-07-07
FRIOR FILIMO DATE: 1999-07-07
FRIOR FILIMO DATE: 1999-09-08
FRIOR FILIMO DATE: 1999-09-08
FRIOR FILIMO DATE: 1999-09-08
FRIOR FILIMO DATE: 1999-09-08
FRIOR FILIMO DATE: 1999-09-18
FRIOR FILIMO DATE: 1999-09-18
FRIOR FILIMO DATE: 1999-09-18
FRIOR FILIMO DATE: 1999-09-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.78+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
OTHER HYPRMATION: Synthetic Oligonucleotide Probe US-09-903-943-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILLING DATE: 1999-12 70 PRIOR FILLING DATE: 1999-12 20 PRIOR FILLING DATE: 1999-12 20 PRIOR FILLING DATE: 1999-12 70 PRIOR FILLING DATE: 2000-01-05 NUMBER: PCT/USOC/00219 PRIOR FILLING DATE: 2000-01-05 NUMBER OF SEQ 10 NOS: 423 SEQ 10 NOS: 423 EXPORTANT: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR PILING DATE: 1999-11-29
PRIOR APPLICATION WHOBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US99/23089
FILING DATE: 1999-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ON NUMBER: PCT/US99/21547
TE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                            Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                  Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wel-Glang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                               Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                       Jennie P.
                                                                                                                                                                                                                                                                                                 Kljavin, Iver J
   Eaton, Dan L.
                                                                                                                                                                           Goddard, A.
```

```
APPLICANT: Pacit, James
APPLICANT: Pacit, James
APPLICANT: Seevart, Timothy A
APPLICANT: Seevart, Timothy A
APPLICANT: Winnes, Daniel
APPLICANT: Winnes, Daniel
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Nacreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: NUMBER: US/03/904.462
CURRENT FILLING DATE: 2000-07-13
PRION APPLICATION NUMBER: 09/665.350
PRION APPLICATION NUMBER: 09/665.350
PRION APPLICATION NUMBER: 09/665.350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OR FILING DATE: 2000-02-22
OR PELIZION NUMBER: US 60/13,048
OR FILING DATE: 1999-07-07
OR FILING DATE: 1999-07-07
OR FILING DATE: 1999-07-26
OR FILING DATE: 1999-07-26
OR FILING DATE: 1999-07-26
OR FILING DATE: 1999-07-26
OR FILING DATE: 1999-07-28
OR FILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .umbER: PCT/US99/21090
1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: PCT/US99/28565 PRIOR FILING DATE: 1999/12-02 PRIOR PPLICATION NUMBER: PCT/US99/30095 PRIOR FILING DATE: 1999-12-16 PRIOR APPLICATION NUMBER: PCT/US99/30911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1599-09-10
APPLICATION NUMBER POT/US99/21090
FILING DATE: 1999-09-15
APPLICATION NUMBER: PCT/US99/21547
FILING DATE: 1999-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R: PCT/US99/28565
12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-11-30
APPLICATION NUMBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/USDU/04414
FILING DATE: 2060-02-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-09-08
APPLICATION NUMBER: PCT/USS9/20944
FILING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/US99/28313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCT/US99/23089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US99/28214
                                                                                                                                                                                                                                                                                                                                                                                    Perrata, Manoleone
Filvaroff, Ellen
Folge, Sherman
Gacher, Hanspeter
Gerritsen, Hary E.
Goddard, A.
Godowski, Paul J.
Granaldi, Christopher J.
86 CGATTGUCTTCCATAGCTGCTG 107
                                                                                                                  RESULT 87
US-09-904-462-16/c
US-09-904-462-16/c
Sequence 16, Application US/99904462
Spublication No. US/2030054351A1
CENERAL INFORMATION:
                             29 CGATCGCATGCCACAGCTGCTG 8
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 13.0%; Score 15 6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 16; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          . OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-903-520-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-903-943-16/c
Sequence 16, Application US/09903943
Publication No. US20030054349A1
GENERAL IMFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenszi, Avi
SAPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29 CGATCGGATGCCACAGCTGCTG 8
        Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: Synthetic US-09-902-621-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
PRIOR FILING DATE: 1999-07-26
PRIOR PLICATION NUMBER: US 60/146,222
PRIOR PLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-09-09-09
PRIOR PLICATION NUMBER: PCT/US99/2094
PRIOR PLICATION NUMBER: PCT/US99/21090
PRIOR PLICATION NUMBER: PCT/US99/2811
PRIOR PLICATION NUMBER: PCT/US99/2811
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR PLICATION NUMBER: PCT/US99/2809
PRIOR PLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR PLICATION NUMBER: PCT/US99/30099
PRIOR PLICATION NUMBER: PCT/US99/30999
PRIOR PLICATION NUMBER: PCT/US99/30999
PRIOR PLICKER: 1999-12-26
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PLICKER: 1909-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16, Application US/09903520
Publication No US20030054401A1
GENERAL INFORMATION:
APPLICANT: Generatech, Inc.
APPLICANT: Botstein, David
APPLICANT: Betsein, David
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Ferrara, Napoleone
APPLICANT: Forgy, Sherman
APPLICANT: Forgy, Sherman
APPLICANT: Forgy, Sherman
APPLICANT: Forgy, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Paoni, Nicholas F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JS-09-903-520-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
```

a ŝ

Page 46

```
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Williams, P. Huckey,
APPLICANT: Wold, William, I.
TITLE OF INVENTION: Secreted and Iransmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 13.0%. Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.78+04.0 Hatches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-794-16
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/JSS99/28313
PRIOR FILING DATE: 1999-11-20
PRIOR PILING DATE: 1999-11-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 2000-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/502,692
CURRENT FILING DATE: 2001-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16, Application US/09902692
Publication No. US20030054400al
GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Panni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ferrara, Mapoleone
Filvaroff, Ellen
Foly, Sherman
Gao, Wei-Olang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Baton, Dan L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 84
US-09-902-692-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PPLICANT: Gurney, Austin E.
PPLICANT: Gurney, Austin E.
PPLICANT: Kljavin, Var J.
PPLICANT: Rather, Jennie P.
PPLICANT: Pan, James
PPLICANT: Pan, James
PPLICANT: Pan, James
PPLICANT: Pan, Micholas F.
PPLICANT: Stewart, Timothy A.
PPLICANT: Stewart, Timothy A.
PPLICANT: Stewart, Timothy A.
PPLICANT: Wallilams, P. Mickey
PPLICANT: Wood, Milliams, I.
PPLICANT: Wood, Milliams, I.
TILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TILE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                         Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Schallarity #1.8%; Prect No. 2.7e+04; Matches 18; Conservative 0; Hismatches 4; Indels 0; Gaps
          LENGTH: 50
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
COTHER INFORMATION: Oligonucleotide probe
US-09-904-956-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE 10466-1.

CURRENT PILLIG DATE: 2001-07-17

CURRENT PILLIG DATE: 2001-07-17

CURRENT PILLIG DATE: 2001-07-17

PRICA PAPLICATION NUMBER: 09/66,360

PRICA PAPLICATION NUMBER: 09/66,360

PRICA FILLIG DATE: 2000-03-18

PRICA PAPLICATION NUMBER: US 60/143,048

PRICA PAPLICATION NUMBER: US 60/145,699

PRICA PAPLICATION NUMBER: US 60/146,222

PRICA APPLICATION NUMBER: US 60/146,222

PRICA APPLICATION NUMBER: US 60/146,222

PRICA APPLICATION NUMBER: PCT/US99/20594

PRICA PAPLICATION NUMBER: PCT/US99/20594

PRICA PAPLICATION NUMBER: PCT/US99/20909

PRICA PAPLICATION NUMBER: PCT/US99/21900

PRICA PAPLICATION NUMBER: PCT/US99/21909

PRICA PAPLICATION NUMBER: PCT/US99/21909

PRICA PAPLICATION NUMBER: PCT/US99/21090

PRICA PAPLICATION NUMBER: PCT/US99/21090

PRICA PAPLICATION NUMBER: PCT/US99/21090

PRICA PAPLICATION NUMBER: PCT/US99/21091
                                                                                                                                                                                                                                                                                                                                                     86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                         29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  us-09-907-794-16/c
; Sequence 16, Application Us/09907794
; Publication No. US20030049677A1
; EMERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              er, Hanspeter
Itsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Generate, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wel-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                ò
```

ö

0; Gaps

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same. FILE REFERENCE: 10466-11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: PCT/US0/
PRIOR APPLICATION NUMBER: PCT/US0/
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1099-07-07
PRIOR PLICATION NUMBER: US 60/145.698
PRIOR PLILING DATE: 1999-07-26
PRIOR PLILING DATE: 1999-07-28
PRIOR PLILING DATE: 1999-07-28
PRIOR PLILING DATE: 1999-07-28
PRIOR PLILING DATE: 1999-09-08
PRIOR PLILING DATE: 1999-09-09-08
PRIOR PLILING DATE: 1999-09-01
PRIOR PLILING DATE: 1999-09-15
PRIOR PLILING DATE: 1999-10-05
PRIOR PRILING DATE: 1999-10-05
PRIOR PRILING DATE: 1999-11-30
PRIOR PLILING DATE: 1999-11-30
PRIOR PLILING DATE: 1999-11-30
PRIOR PLILING DATE: 1999-11-30
PRIOR PLILING DATE: 1999-11-20
PRIOR PLILING DATE: 1999-11-20
PRIOR PLICATION NUMBER: PCT/US99/2099
PRIOR PLILING DATE: 1999-12-00
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1999-12-16
PRIOR PRICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1999-12-00
PRIOR PLILING DATE: 1999-12-00
PRIOR PLILING DATE: 1999-12-00
PRIOR PLILING DATE: 1999-12-00
PRIOR PLILING DATE: 1999-12-16
PRIOR PRICATION NUMBER: PCT/US99/3099
PRIOR PLILING DATE: 1999-12-00
PRIOR PLILING DATE: 1999-13-00
PRIOR PLILING DATE: 1990-13-00
PRIOR PLILING DA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/904,956 CURRENT FILING DATE: 2001-07-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                Sequence 16, Application US/09934956; Publication No. US20030049622A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      illiams, P. Mickey od, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kljavin, Ivar J.
Mather, Jennie P.
Pen, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspoter
                                                                                                                                                                                                                                                       Genentech, Inc.
Ashkenazi, Avi
Botsrein. David
Desnoyers, Luc
Eaton, Dan Luc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mas, Danlel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TLE OF INVENTION: Secreted and Transmembrane Polypeptides and Mucleic TLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-904-119-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE RPERENCE: 10466-14

CURRENT FILING DATE: 2000-07-11

CURRENT FILING DATE: 2000-07-11

PRIOR PLICATION NUMBER: 09/665.350

PRIOR FILING DATE: 2000-07-11

PRIOR FILING DATE: 2000-07-13

PRIOR FILING DATE: 2000-07-18

PRIOR FILING DATE: 1999-07-07

PRIOR FILING DATE: 1999-07-07

PRIOR FILING DATE: 1999-07-08

PRIOR PLICATION NUMBER: US 60/146,222

PRIOR FILING DATE: 1999-07-28

PRIOR PLICATION NUMBER: PCT/US99/20594

PRIOR FILING DATE: 1999-07-08

PRIOR PRIOR DATE: 1999-07-08

PRIOR PLING DATE: 1999-09-19

PRIOR FILING DATE: 1999-09-19

PRIOR FILING DATE: 1999-09-15

PRIOR PLICATION NUMBER: PCT/US99/20304

PRIOR PLICATION NUMBER: PCT/US99/20309

PRIOR PLIKE DATE: 1999-12-16

PRIOR PLIKE DATE: 1999-12-20

PRIOR PLIKE DATE: 1999-12-30

PRIOR PLIKE DATE: 1999-12-30

PRIOR PLIKE DATE: 2000-01-05

NUMBER: PCT/WESP
                                                                                         Godowski, Paul J.
Grimadki, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      86 ICGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                 Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
Gerber, Hanspeter
Gerritsen, Mary E.
```

29 CGATCGGATGCCACAGCTGCTG 8

```
TITLE OF INVENTION: Secreted and Transmembrare Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same ELLE REFERENCE: 10466-14 CURRENT APPLICATION NUMBER: 05/09/902,736 CURRENT FILLING DATE: 2001-07-10 PRIOR REPLICATION NUMBER: 09/65,350 PRIOR APPLICATION NUMBER: 09/65,350 PRIOR RELICATION NUMBER: PCT/USOV/0414 PRIOR RELICATION NUMBER: PCT/USOV/0414 PRIOR RELICATION NUMBER: COT/USOV/0414 PRIOR FILING DATE: 2000-02-22 PRIOR FILING DATE: 1009-07-07 PRIOR PRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oucry Match
Oucry Match
Best Local Similarity 81.8%; Pred. No. 2.7e+04;
Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-736-16
                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR ALLING DATE: 1999-107-00
PRIOR ALLING DATE: 1999-107-00
PRIOR APPLICATION NUMBER: US 60/145.698
PRIOR APPLICATION NUMBER: US 60/146.222
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PELICATION NUMBER: PCT/US99/20544
PRIOR PELICATION NUMBER: PCT/US99/21050
PRIOR PELICATION NUMBER: PCT/US99/21050
PRIOR PELICATION NUMBER: PCT/US99/21050
PRIOR APPLICATION NUMBER: PCT/US99/21050
PRIOR APPLICATION NUMBER: PCT/US99/21040
PRIOR APPLICATION NUMBER: PCT/US99/21040
PRIOR APPLICATION NUMBER: PCT/US99/21040
PRIOR PELICATION NUMBER: PCT/US99/2811
PRIOR PILING DATE: 1999-10-05
PRIOR PELICATION NUMBER: PCT/US99/2811
PRIOR PLILING DATE: 1999-11-30
PRIOR PELICATION NUMBER: PCT/US99/2864
PRIOR PLILING DATE: 1999-11-30
PRIOR PELICATION NUMBER: PCT/US99/28064
PRIOR PELICATION NUMBER: PCT/US99/28065
PRIOR PELICATION NUMBER: PCT/US99/28099
PRIOR PELICATION NUMBER: PCT/US99/28091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : Sequence 16, Application US/09904119; Publication No. US20030049621A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ashkenazi, Avi
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Faton, Dan L.
Ferrara, Napoleone
Filvaroff Ellen
Fong, Sherman
Gao, Wet-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 81
US-09-9C4-119-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
13.0%: Score 15.6; DB 9: Length 50;
Best Local Similarity 81.8%; Pred. No. 2.7e+04.8
Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-903-786-16
         PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILLED DATE: 1999-12-02
PRIOR FILLED DATE: 1999-12-02
PRIOR APPLICATION NOMBER: PCT/US99/30095
PRIOR FILLED DATE: 1999-12-16
PRIOR PELLEN DATE: 1999-12-16
PRIOR FILLED DATE: 1999-12-20
PRIOR FILLED DATE: 1999-12-20
PRIOR PELLEN DATE: 2000-01-05
PRIOR PELLEN DATE: 2000-01-05
PRIOR PELLEN DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 16
                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILLING DATE: 1999-11-10
PRIOR PLLICATION NUMBER: PCT/US99/28564
PRIOR PILLING DATE: 1999-12-02
PRIOR APPLICATION WUMBER: PCT/US99/28565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Renneth, J.
Kilavin Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 80
-09-907-36-16/c
| Sequence 16, Application US/09902736
| Publication No. US20030049676A1
| GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Genentech, Inc.
APPLICANT: Genentech, Inc.
APPLICANT: Botstein, David
APPLICANT: Botstein, David
APPLICANT: Person, Dan L.
APPLICANT: From, Map Lone
APPLICANT: From, Sherman
APPLICANT: Ford, Sherman
APPLICANT: Good, Wei-Glang
APPLICANT: Gorber, Hanspeter
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerber, Mary E.
APPLICANT: Gorber, Mary E.
APPLICANT: Goddard, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
```

ŏ ဌ

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Mucleic IIILE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: Synthetic orHER INFORMATION: Oligonucleotide probe US-09-903-749A-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/903.786
CURRENT FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: 03/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR PELING DATE: 2000-02-23
PRIOR PELING DATE: 2000-02-23
PRIOR PELING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-28
PRIOR PELING DATE: 1999-07-28
PRIOR PELING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DARE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PPLION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEC 1D NOS: 423
LED NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 16, Application US/09903786 Publication No. US20030044793A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gao, Wei-Olang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: BOLSTEIN, David
APPLICANT: Eaton, David
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 79
US-09-903-786-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION WOOD, WILLIAMS, P. Mickey
APPLICATION WOOD, WILLIAM, I.
TILLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TILLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TILLE OF INVENTION: Acids Encoding the Same
FILE PREFERENCE: 10466-1046.
CURRENT APPLICATION NUMBER: US/09/903,749A
CURRENT FILING DATE: 2000-02-21
PRIOR FILING DATE: 1090-07-06
PRIOR FILING DATE: 1099-07-06
PRIOR FILING DATE: 1099-07-26
PRIOR FILING DATE: 1099-07-26
PRIOR FILING DATE: 1099-07-26
PRIOR FILING DATE: 1099-07-28
PRIOR FILING DATE: 1099-07-28
PRIOR FILING DATE: 1099-07-38
PRIOR FILING DATE: 1099-07-38
PRIOR FILING DATE: 1099-09-13
PRIOR FILING DATE: 1099-09-13
PRIOR FILING DATE: 1099-09-13
                                                                                                                        ö
                                                                                                                           Gaps
                                                                                                                        ö
                                                                        Ouery Match
Best Local Similarity 81.8%; Pred. No. 2.7e+04;
Matches '18; Conservative 0; Mismatches 4: Indels
  ; OTHER INFORMATION: Oligonuclectide probe US-09-902-903-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FLILING DATE: 1999-09-15
PRIOR REPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR FLILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-29
PRIOR FLILING DATE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCT/US99/28214
FILING DATE: 1999-11-29
APPLICATION NUMBER: PCT/US99/28313
FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US99/28565
FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPÉICATION NUMBER: PCT/US99/28564
FILING DATE: 1999-12-02
                                                                                                                                                                   86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                 29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                          Ashkenazi, Avi
Borstein, David
Desnoyers, Luc
Eaton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gao, Wel-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
```

```
APPLICAMT: Mood, Millian I.

TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION: Acids Encoding the Same
FILE REPERENCE: 10466-14
CURREAT APPLICATION NUMBER: US,09/902,903
CURREAT APPLICATION NUMBER: US,09/902,903
CURREAT ELLING DATE: 2001-0-14
PRIOR APPLICATION NUMBER: GT/US00/0414
PRIOR APPLICATION NUMBER: GT/US00/04-14
PRIOR APPLICATION NUMBER: US 60/146,203
PRIOR FILING DATE: 1999-09-0-28
PRIOR FILING DATE: 1999-09-0-3
PRIOR FILING DATE: 1999-09-0-3
PRIOR FILING DATE: 1999-09-0-3
PRIOR FILING DATE: 1999-09-0-3
PRIOR FILING DATE: 1999-09-13
PRIOR PRIOR MANUBER: PCT/US99/2184
PRIOR FILING DATE: 1999-09-15
PRIOR PRIOR MANUBER: PCT/US99/284
PRIOR PLICATION NUMBER: PCT/US99/284
PRIOR PLICATION NUMBER: PCT/US99/284
PRIOR PLICATION NUMBER: PCT/US99/2865
PRIOR PLICATION NUMBER: PCT/US99/2865
PRIOR PLICATION NUMBER: PCT/US99/2865
PRIOR PLICATION NUMBER: PCT/US99/2865
PRIOR PLICATION NUMBER: PCT/US99/2896
PRIOR PLICATION NUMBER: PCT/US99/2899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TIPE: DNA PRINTING ARTIFLEIA Sequence PEATURE:
PEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Yaar J.
Hather, James
Pan, James
Pan, James
Pan, James
Pan, Augaret Ann
Stewart, Timothy A.
Timosh, Daniel Milliams, P. Mickey
Wood, Williams, P. Mickey
                                                    APPLICANT Genetrech, Inc.
APPLICANT Genetrech, Inc.
APPLICANT Sthemazi Avi
APPLICANT BESNOVES Luc
APPLICANT Exten, Dan Luc
APPLICANT Ferrara, Mapoleone
APPLICANT Floatoff Ellen
APPLICANT Go, Wei'c Jan
APPLICANT Go, Wei'c Gertleen, Mary E.
Publication No. US20030044839Al GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ 15 NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SE
SEQ ID NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                       TLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C. Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Oligonucleotide probe 03-09-906-706-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Opery Match 13.0% Score 15.6; DB 9; Length 50: Best Local Similarity 81.8%; Pred. Mo. 2.7.8-0%. Methods 18; Conservative 0; Mismatches 4; Indels Methods
                                                                                                                                                                                                                                                                                                                                                                                                                   THILE REPERENCE: 10466-14

CURRENT PAPLICATION: ACIDS Encoding the Same FILE REPERENCE: 10466-14

CURRENT PLILMC DATE: 2000-09-18

PRIOR PELINE DATE: 2000-09-18

PRIOR PELINE DATE: 2000-09-18

PRIOR PELINE DATE: 3000-09-18

PRIOR PELINE DATE: 1999-07-07

PRIOR PELINE DATE: 1999-07-07

PRIOR PELINE DATE: 1999-07-08

PRIOR PELINE DATE: 1999-07-08

PRIOR PELINE DATE: 1999-07-08

PRIOR PELINE DATE: 1999-09-18

PRIOR PELINE DATE: 1999-10-15

PRIOR PELINE DATE: 1999-11-19

PRIOR PELINE DATE: 1999-11-19

PRIOR PELINE DATE: 1999-11-20

PRIOR PELINE DATE: 1999-12-20

PRIOR PELINE DATE: 1999-13-20

PRIOR PELINE DATE: 1999-13-20

PRIOR PELINE DATE: 1999-13-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 77
US-09-902-903-16/c
: Sequence 16, Application US/09902903
                                                                                                                                                                                                                                              Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                         Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PE: DNA
IGANISM: Artificial Sequence
```

```
OTHER INFORMATION: Description of Artificial Sequence: Synthetic profile InfoRmATION: OLigonucleotide probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
            CURRENT FILING DATE: 2002-01-22
PRIOR APPLICATION NUMBER: U.V. 2007-01-22
PRIOR APPLICATION NUMBER: PCT/USO0/04414
PRIOR PLICATION NUMBER: PCT/USO0/04414
PRIOR PLICATION NUMBER: PCT/USO0/04414
PRIOR PLICATION NUMBER: US 60/145,698
PRIOR PLICATION NUMBER: US 60/146,222
PRIOR PLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-26
PRIOR PLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR PLICATION NUMBER: PCT/US99/21090
PRIOR PLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR PLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-20
PRIOR PLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-11-20
PRIOR PRIOR PRICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-11-20
PRIOR PRICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-11-20
PRIOR PRICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-11-20
PRIOR PRICATION NUMBER: PCT/US99/3099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 76
US-09-906-700-16/c
: Sequence 16, Application US/09966700
: Publication No. US20030039972A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Geneticch, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Botsnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Foog, Sherman
APPLICANT: Gao, Wel-Qlanq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fong, Sherman
Gao, Wel-Qlang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
Godowski, Paul J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                          APPLICANT: Junas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Acids Encoding the Same
FILE REFRENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,786
CURRENT APPLICATION NUMBER: US/08/904,786
PRIOR PRILICATION NUMBER: 09/665,350
PRIOR PILIAG DATE: 2001-07-13
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Williams, P. Mickey
APPLICANT: Wood, Hilliam, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
Best Local Similarity 81.8%; Pred. No. 2.7e+04;
Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-904-786-16
Geritsen, Mary E.
Goddwrd, A.
Goddwshi, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Generated, Inc.
Ashkenal, Avi
Botstein, David
Botstein, David
Botstein, David
Botstein, David
Eaton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Goo, Wel-Olang
Gerber, Hanspeter
Goddard, A.
Goddard, A.
                                                                                                                                                      Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      윰
```

Gaps

```
0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA OGGANES: Artificial Sequence OGGANES: Artificial Sequence TEATURE: TEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic US-09-905-204-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Owery Metch 13 0%: Score 15.6; 08.9; Length 50: Best Local Shillarity 81.8%; Pred. Mo. 2.7ev0.6 Metches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HESULT 74
US-09-904-786-15/c
US-09-904-786-15/c
Sequence 16, Application US/09904786
Publication No. US/2003039969A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AFFICANT Genetics. Inc.
APPLICANT Ashensial Avi
APPLICANT Schools and APPLICANT Bessels. Luc
APPLICANT REACH. Dan L.
APPLICANT REACH. APPLICANT REPLICANT REPLICANT MODION
APPLICANT FORD SHERMIN APPLICANT GOVERNMENT APPLICANT GOVERNMENT APPLICANT GOVERNMENT APPLICANT GOVERNMENT APPLICANT GOVERNMENT APPLICANT GOVERNMENT AND APPLICANT GOVERNMENT GOVERNMENT AND APPLICANT GOVERNMENT AND APPLICANT GOVERNMENT GOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 13.0%; Score 15.6; Da 9; Length 50; Bost Local Similarity 81.8%; Prod. No. 2. 74-00; Matches 4; Indels Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : OTHER INFORMATION: Synthetic Oligonucleotide Probe
US-09-904-859-16
    PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR PLILING DATE: 1999-09-18
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR PLILING DATE: 1999-09-18
PRIOR APPLICATION NUMBER: PCT/US99/2187
PRIOR APPLICATION NUMBER: PCT/US99/2189
PRIOR APPLICATION NUMBER: PCT/US99/2814
PRIOR APPLICATION NUMBER: PCT/US99/2814
PRIOR APPLICATION NUMBER: PCT/US99/2814
PRIOR APPLICATION NUMBER: PCT/US99/2817
PRIOR APPLICATION NUMBER: PCT/US99/2805
PRIOR APPLICATION NUMBER: PCT/US99/2805
PRIOR PLILING DATE: 1999-12-05
PRIOR PLILING DATE: 1999-12-16
PRIOR PLILING DATE: 1999-12-16
PRIOR PLILING DATE: 1999-12-16
PRIOR PRILING DATE: 2000-01-05
PRIOR PRILING DATE: 1999-12-16
PRICE PRIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 16, Application US/0909204
EDBLICATION NO. US2030036051A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICAMT: Generatech, Inc.
APPLICAMT: Generatech, Inc.
APPLICAMT: Boustein, David
APPLICAMT: Berstein, David
APPLICAMT: Filvareff, Ellen
APPLICAMT: Filvareff, Ellen
APPLICAMT: Filvareff, Ellen
APPLICAMT: General Nampeter
APPLICAMT: General Nampeter
APPLICAMT: Gener, Nampeter
APPLICAMT: Gentre, Nampeter
APPLICAMT: Glamaid, Christopher 3, APPLICAMT: Mather, James
APPLICAMT: Mather, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Paoni, Nicholas F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumas, De
Williams,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 73
US-09-909-204-16/c
```

ò

ပွဲ

```
APPLICANT: Williams, P. Mickey
APPLICANT: Wold, Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REPERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,859
PRIOR PROTECTION DATE: 2001-07-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity #1.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                 FEATURE: GAHER INFORMATION: Synthetic Oligonucleotide Probe US-09-904-620-16
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30091
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-12-20
PRIOR PILING DATE: 2000-01-05
NUMBER OF SEX ID NOS: 423
SEQ ID NO 16
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT FILING DATE: 2001-07-12
PRIOR PAPLICATION NUMBER: 09/665.350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665.350
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR PAPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  86 CGATTGCCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 16, Application US/09904859
Publication No. US20030036060A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Hather, Jennie P.
Pan, Jämes
Pan, Micholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerber, Hanspeter
Geritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gao, Wei-Qlang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 72
US-09-904-859-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Williams, P. Mickey
PLOCANT: Wood, William; I.
THE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
                                                                                                       Gaps
                                                                                                     ö
                                                   Query Match
Best Local Similarity 81.8%; Pred. No. 2.7e+04;
Matches 118; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DR FILING DATE: 1999-10-05
DR APPLICATION NUMBER: PCT/US99/28214
DR FILING DATE: 1999-11-29
DR APPLICATION NUMBER: PCT/US99/28313
DR FILING DATE: 1999-11-30
DR APPLICATION NUMBER: PCT/US99/28564
DR APPLICATION NUMBER: PCT/US99/28565
DR APPLICATION NUMBER: PCT/US99/28565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            UGRREM APPLICATION NUMBER: US/09/904,820
UGRREM FILING DATE: 2001-07-13
SRIOR APPLICATION NUMBER: 09/565,350
PRIOR FILING DATE: 2000-09-18
PRIOR PPLICATION NUMBER: PCT/USO0/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1999-09-08
APPEICATION NUMBER: PCT/US99/20944
FILING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US99/21547
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US99/23089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: PCT/US99/20594
FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US99/21090
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-07-26
APPRICATION NUMBER: US 60/146,222
FILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CICATION NUMBER: US 50/145,698
                                                                                                                                                                                                                                                                                                       Sequence 16. Application US/09904820
PUBLICATION NO. US20030036094A1
RPELICANT: Genentech, Inc.
APPLICANT: Genentech, Inc.
APPLICANT: Bashkenazi, Avi
APPLICANT: Desnoyers, Luc.
APPLICANT: Besnoyers, Luc.
APPLICANT: Perrara, Mapoleone
APPLICANT: FILVATOEf, Ellen
                                                                                                                                                 86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                           Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Danlel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kljavin, Ivar J.
Hather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1999-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fong, Sherman
Gao, Wel-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ILE REFERENCE: 10466-14
               US-09-907-942-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
PRIOR
                                                                                                                                                      ò
                                                                                                                                                                                               පු
```

```
Genentech, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Daniel
INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                             APPLICANT: Route miscrett Ann APPLICANT: Route Miscrett Ann APPLICANT: Route Miscrett Ann APPLICANT: Stewart, Timochy A. APPLICANT: Tuwas, Dantel APPLICANT: Tuwas, Dantel APPLICANT: Tuwas, Dantel APPLICANT: Walliams, P. Hickey APPLICANT: WILLiams, P. Hilliam, I. TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic CORRENT APPLICATION NUMBER: US/09/907,613
CORRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: oligonucleotide probe US-09-907-613-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Owery Metch 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Marches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE: 1999-07-26
PRIOR PELLING DATE: 1999-07-38
PRIOR PILLING DATE: 1999-07-38
PRIOR PELLING DATE: 1999-07-38
PRIOR PELLING DATE: 1999-09-08
PRIOR PELLING DATE: 1999-09-09
PRIOR PELLING DATE: 1999-09-10
PRIOR PELLING DATE: 1999-09-10
PRIOR PELLING DATE: 1999-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR PILIAN DATE: 1999-12-16
PRIOR PLILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR PRILING DATE: 1999-12-20
PRIOR PRILING DATE: 1999-12-20
PRIOR PRILING DATE: 1999-12-20
PRIOR PRILING DATE: 1999-12-20
PRIOR PRILING DATE: 2000-11-05
PRIOR PLILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NÜMBER: PCT/US99/23089,
PRIOR FILING DATE: 1999-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR PLLING DATE: 1999-11-20
PRIOR PLLING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: US 60/143.048

PRIOR FILING DATE: 1999-07 07

PRIOR APPLICATION WHOBER: US 60/145.698

PRIOR FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 70

10.09-907-942-16/C

15 Sequence 16, Application US/09907942

19 Publication No. US20030027146A1
Gurney, Austin L.
Hillan, Kenncth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -12 - 02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-09-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
```

```
APPLICANT DESCRIPES, Labor Devices, Labor Devices, PAPLICANT Extent, Don L. APPLICANT Extent, Don L. APPLICANT Extent, Don L. APPLICANT PRIVATE LEBION DEVICEMENT PRIVATE LEBION DEVICEMENT PRIVATE LEBION DEVICEMENT CONTRACT CONTR
```

```
Query Match 13.0%, Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred: No. 2.7e+04, Marches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ) OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-906-838-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-00-18
PRIOR FILING DATE: 2000-00-18
PRIOR APPLICATION NUMBER: PCT/USO0/04414
PRIOR APPLICATION NUMBER: US 60/14,048
PRIOR PILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR PRILING DATE: 1999-09-15
PRIOR PRILING DATE: 1999-10-05
PRIOR PRILING DATE: 1999-10-05
PRIOR PRILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR PRILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-03
PRIOR PRIOR DATE: 2000-01-05
NUMBER OF SEO 1D NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-907-613-16/c
: Sequence I.6. Application US/09907613
: Publication No. US20030027145A1
: CENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Geneticch, Inc.
APPLICANT: Asikenazi, Avi
APPLICANT: Bocstein, David
APPLICANT: Becompers, Luc
APPLICANT: Eaton, Dan L
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gerritsen, Mary E. Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gerber, Manspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; FEATURE;
; OTHER INFORMATION: Synthetic Oligonucleotide Probe
US-09-906-742-16
                                                                                                    PRIOR APPLICATION NUMBER: PGT/US99/28214
PRIOR APPLICATION NUMBER: PGT/US99/28214
PRIOR APPLICATION NUMBER: PGT/US99/28313
PRIOR PELICATION NUMBER: PGT/US99/28313
PRIOR PLICATION NUMBER: PGT/US99/28564
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-03
PRIOR PLING DATE: 1999-13-03
PRIOR PLING DATE: 2000-01-05
SEQ ID NO. 16
SEQ ID NO. 16
SEQ ID NO. 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,838
CURRENT FILING DATE: 2001-07-16
     APPLICATION NUMBER: PCT/US99/21547
FILING DATE: 1999-09-15
APPLICATION NUMBER: PCT/US99/23089
FILING DATE: 1999-10-65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Hather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 16, Application US/09906838
Publication No. US2030027143A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eston, Dan
Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -838-16/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT!:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 68
US-09-906-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          윱
```

0; Gaps

ò g

```
APPLICAMY: Stemant, Inholly A.
APPLICAMY: Williams, P. Mickey
APPLICAMY: Williams, P. Mickey
APPLICAMY: Williams, P. Mickey
APPLICAMY: Williams, P. Mickey
APPLICAMY: Wood, Williams, I.
TITLE OF INVENTION: Secreted and Transmembranc Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembranc Polypeptides and Nucleic
CURRENT PRINTON HOUSE Encoding the Same
FILE REPRENCE: 10466-11 105/06.742
CURRENT FILLIAG DATE: 2000:-09-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR APPLICATION NUMBER: PCT/USON(94414
PRIOR FILEND DATE: 2000:-99-18
PRIOR FILEND DATE: 2000:-92-22
PRIOR FILEND DATE: 2000:-99-22
PRIOR FILING DATE: 1999:-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                       0: Gaps
                                                                                                                                                                                                                                                                                                                                                             Ouery Match 13.0%; Score 15.6; DB 9; Length 50; Best Local Similarity B1.8%; Pred. No. 2.7e+04.0%
Best Local Similarity B1.8%; Pred. No. 2.7e+04.0%
Best Local Similarity B1.8%; Pred. No. 2.7e+04.0%
                                                                                                                                                                                                                                                                      : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-904-011-16
PRIOR APPLICATION WUNBER: PCT/US99/30999
PRIOR FILLING DATE: 1999-12-20
PRIOR APPLICATION WUNBER: PCT/US0C/G3219
PRIOR FILLING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 16
JENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: PCT/US99/20944 PRIOR FILING DATE: 1999-09-13 PRIOR APPLICATION NUMBER: PCT/US99/21090 PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLIAGE DATE: 1999-07-20
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/146,222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/145.698 PRIOR FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 67
US-09-906-742-16/C
Sequence 16. Application US/09906742
Publication No. US20030623054A.
GENERAL INFORMATION:
APPLICANT Genetech, Inc.
APPLICANT Ablkenal, Avi
APPLICANT Belsen, David
APPLICANT Eaton, Dan L.
APPLICANT FUTANT BESONGES.
APPLICANT FUTANT SHETMEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fong, Sherman
Gao, Wat-Olang
Gertisen, Marspeter
Gertisen, Mary E.
Goddard, A.
Goddowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewark, Timothy A.
Tumas, Daniel
                                                                                                                                                                                            TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Panol. Unitologs F.
APPLICANT: Sty. Margaret Ann
APPLICANT: Sty. Margaret Ann
APPLICANT: Tumas, Daniel
APPLICANT: Hilliams, P. Witchy
APPLICANT: Hilliams, P. Witchy
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURREAT PALICATION NUMBER: US/09/904 011
CURREAT FILING DATE: 2001.07-11
CURREAT FILING DATE: 2001.07-11
PRIOR PRILORION NUMBER: 09/665,350
PRIOR APLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000.09-18
PRIOR FILING DATE: 2000.09-18
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-28
PRIOR PRIOR PAPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-09-18
PRIOR PRILOR DATE: 1999-09-18
PRIOR PLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR PLILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: PCT/US99/30095
RICK FILING BATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US99/28313
FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Renneth, J.
Kijavin, Ivar J.
Mither, Jennie P.
Pan, Jamos
                                 86 CGATTGCTTCCATAGCTGCTG 107
                                                         29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                Sequence 16, Application US/09904011 Publication No. US20030003530A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Abhenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Botsoyers, Luc
APPLICANT: Beton, Dan L.
APPLICANT: Ferrara, Mapoleone
APPLICANT: Fritara, Mapoleone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                 RESULT 66
US-09-904-011-16/c
```

```
APPLICANT: Gurney, Auchita, Capital L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Wood, Williams, P. Mickey
APPLICANT: Wood, Williams, P. Mickey
APPLICANT: Wood, Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, Williams, P. Mickey
APPLICANT: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Godowski, Paul J.
Grimaldi, Christopher J.
29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                          Sequence 16, Application US/09907841 Publication No. US20020198366A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerber, Hanspeter
                                                                                                                                                                                                                                          APPLICANT: Genentech, Inc.
APPLICANT: Ashkonazi, Avi
APPLICANT: BOLSCHEIN, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eacon, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Goddard, A.
                           a
                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Williams, P. Mickey
APPLICANT: WOOG, Milliam, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,824
CURRENT PILING DATE: 2001-07-17
PRIOR PELING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-36
PRIOR FILING DATE: 1999-07-36
PRIOR PELLONTION NUMBER: PCT/US99/2094
PRIOR FILING DATE: 1999-09-18
PRIOR PELLONTION NUMBER: PCT/US99/2094
PRIOR PELLONTION NUMBER: PCT/US99/2090
PRIOR APPLICATION NUMBER: PCT/US99/2090
PRIOR PELLONTION NUMBER: PCT/US99/2090
PRIOR PELLONTION NUMBER: PCT/US99/2090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-824-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 13.0%; Score 15.6; DB 9; Best Local|Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30055
PRIOR APPLICATION NUMBER: PCT/US99/30091
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
NUMBER OF, SEQ ID NOS: 423
LENGTH: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR PAPPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US99/21547
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOR APPLICATION NUMBER: PCT/US99/28564
TOR FILLING DATE: 1999-12-02
                                                                                                                           Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Hather, James
Pan, James
Pan, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                  Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                              Tumas, Daniel
APPLICANT
```

```
TILE OF INVENTION: ACIDS ENCOGING THE Same
TILE OF INVENTION: ACIDS ENCOGING THE SAME
CURRENT APPLICATION NUMBER: US/09/907,841

CURRENT APPLICATION NUMBER: US/09/907,841

PRIOR FILING DATE: 2001-11-20

PRIOR PRIOR APPLICATION NUMBER: PCT/US00/0414

PRIOR PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR PRIOR APPLICATION NUMBER: US 60/146,222

PRIOR PRIOR APPLICATION NUMBER: US 60/146,222

PRIOR PRIOR APPLICATION NUMBER: US 60/146,222

PRIOR PLING DATE: 1999-07-07

PRIOR PLING DATE: 1999-09-08

PRIOR PLING DATE: 1999-09-13

PRIOR PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR PRIOR DATE: 1999-09-15

PRIOR PRIOR PRIOR DATE: 1999-09-15

PRIOR PRIOR OBJE: 1999-09-15

PRIOR PRIOR DATE: 1999-10-05

PRIOR PRIOR DATE: 1999-10-05

PRIOR FILING DATE: 1999-11-29

PRIOR FILING DATE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: oligonucleotide probe US-09-907-841-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 13.0%: Score 15.6; DB 9; Length 50; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels
```

Gaps

```
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT Tumas, Daniel
APPLICANT WOOD William, I.
TITLE OF TWENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF TWENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REPERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/965, 350
PRIOR FILING DATE: 2000-07-10
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-07-05
PRIOR APPLICATION NUMBER: US 60/146, 22
PRIOR APPLICATION NUMBER: US 60/146, 22
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR FILING DATE: 1999-09-19
PRIOR FILING DATE: 1999-09-19
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oucry Match 13.0%: Score 15.6; DB 9; Length 50: Best Local Similarity 81.8%; Pred. No. 2.7e-04.8 Hesches 18; Conservative 0; Hismatches 4; Indels Matches 18; Conservative 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-902-853-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-10-05
PRIOR PRIOR DATE: 1999-10-09
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     86 CGATTGCCTTCCATAGCTGCTC 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 64
US-09-907-824-16/C
Sequence 16. Application US/09907824
Publication No. US2020197671A1
GENERAL INFORMATION
GENERAL INFORMATION
TO GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Genericul, Inc.
APPLICANT: Ashkenall, Avi
APPLICANT: Botstein, David
APPLICANT: Bossnoyers, Luc
APPLICANT: Exten Dan L
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff; Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 423
SEQ ID NO 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic ; OTHER INFORMATION: Oligonucleotide probe US-09-291a-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Owery Match
Ower Local Similarity 81.8%; Pred. No. 2.70+04.0
Herthes 18: Conservative 0; Mismetches 4: Indels
       PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-06-08
PRIOR PRILING DATE: 1999-09-08
PRIOR PRILING DATE: 1999-09-08
PRIOR PRILING DATE: 1999-09-08
PRIOR PRILING DATE: 1999-09-18
PRIOR PRILING DATE: 1999-09-18
PRIOR PRILING DATE: 1999-09-18
PRIOR PRILING DATE: 1999-09-18
PRIOR PRILING DATE: 1999-10-05
PRIOR PRILING DATE: 1999-10-07
PRIOR PRILING DATE: 1999-11-30
PRIOR PRILING DATE: 1999-12-36
PRIOR PRILING DATE: 1999-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 63
US-09-902-85-18/C
Sequence 16, Application US/09902853
Publication No. US20020192659A1
CORREAL INFORMATION:
APPLICANT: Genencech, Inc.
APPLICANT: Askeenst, Avi
APPLICANT: Bostoyers, Luc
APPLICANT: Bostoyers, Luc
TOTANT: Eaton, David
TOTANT: Eaton, David
TOTANT: Eaton, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fong, Sherman
Gao, Wat-Olang
Gerrisen, Mary E.
Goddard, A.
Goddowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Fenneth, J.
Kljavin, Ivar J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ferrara, Napolcone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Paoni, Micholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: 10466-14 CURRENT APPLICATION NUMBER: US/09/905,291A CURRENT FILING DATE: 2001-07-12 PRIOR FILING DATE: 2001-07-12 PRIOR FILING DATE: 2000-02-22 PRIOR FILING DATE: 1999-07-07 PRIOR APPLICATION NUMBER: US 60/145,698 PRIOR FILING DATE: US 60/145,698 PRIOR FILING DATE: US 60/145,698 PRIOR FILING DATE: US 60/145,698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 13.0%; Score 15.6; DB 10; Length 49; Best Local Similarity 81.8%; Pred. No. 2.7e+04; Matches 18; Conservative 0; Mismatches 4; Indels 0
Sequence 9. Application US/09896915
Patent No. USZ02020194591
GENERAL INFORMATION:
APPLICAMT: Medical Research Council
APPLICAMT: McIntins, Andrew
TITLE OF INVENTION: Optical Sorting Method
FILE REFERENCE: 1896/2022
CURRENT APPLICATION NUMBER: US/09/896,915
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US/09/896,915
PRIOR APPLICATION NUMBER: PT/GEOU/00030
PRIOR FILING DATE: 1999-01-07
PRIOR FILING DATE: 1999-01-07
PRIOR FILING DATE: 2000-01-06
NUMBER OF SED ID NOS: 40
SOFTWARE: PATENTIN VEYSION 3.1
LENGTH: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : OTHER INFORMATION: Oligonucleotide EDHFR-Fo
US-09-896-915-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30 ACCTCATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13 ACCTTATTACCGCCGCTCCAGA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 16, Application US/09905291A Patent No. US20020160374A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gurney, Austin L.
Hilan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jeunic P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ferrara, Mapoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerber, Hanspeter
Geritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ashkenazi, Avi
Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Desnoyers, Luc
Eston, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 12, Application US/09147142
Sequence 12, Application US/09147142
Patent No. [US2002001849A]
GENERAL INFORMATION:
APPLICANT: HUDSON, Peter John
APPLICANT: RIVING, ROBERT Alexander
APPLICANT: RIVING, ROBERT Alexander
APPLICANT: RIVING, ROBERT Alexander
APPLICANT: ATWELL, John Lessile
TITLE OF INVENTION: HIGH AVIDITY POLYVALENT AND POLYSPECIFIC REAGENTS
FILE REFRENCE: 016786/0212
CURRENT FILING DATE: 1999-03-05
EARLIER APPLICATION NUMBER: BCT/AU98/00212
EARLIER APPLICATION NUMBER: AU PO 5917
EARLIER FILING DATE: 1999-03-05
SOFTWARE: PRACEICATION NUMBER: AU PO 5917
EARLIER FILING DATE: 1999-03-05
SOFTWARE: PRACEIL NOS: 32
SOFTWARE: PRACEIL VET. 2.0
SSOT ID NOS: 32
LENTH: 45
      APPLICANT: HUDSON, Peter John
APPLICANT: RORIT, Alex Andrew
APPLICANT: TRYING, Robert Alexander
APPLICANT: TRYING, Robert Alexander
APPLICANT: TRYING, Robert Alexander
APPLICANT: ATWELL, John Lealie
TITLE OF THE WITENTON HIGH AVIOITY POLIVALENT AND POLYSPECIFIC REAGENTS
FILE REFERENCE: 016/086/012
CURRENT APPLICATION WUMBER: US/09/147,142
CURRENT FILING DATE: 1999-03-05
EARLIER APPLICATION NUMBER: PCT/ANU98/00212
EARLIER APPLICATION NUMBER: PCT/ANU98/00212
EARLIER FILING DATE: 1997-03-27
NUMBER OF SEQ ID MOS: 32
SOFTWARE: PALENTING DATE: 1997-03-27
SOFTWARE: PALENTING DATE: 1997-03-27
SOFTWARE: PALENTING DATE: 1997-03-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Description of Artificial Sequence: synthetic OTHER INFORMATION: oligonucleotide used to insert codon between VH; OTHER INFORMATION: and VL domains of NCIO scFv-0 US-09-147-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Description of Artificial Sequence: synthetic OTHER INFORMATION: oligonucleotide used to insert codon between VH OTHER INFORMATION: and VL domains of NCIO scFv-0 US-09-147-142-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match
13.04; Score 15.6; DB 10; Length 45;
Best Local Similarity 63.24; Pred. No. 2.6e+04;
Matches p4; Conservative 0; Mismatches 14; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 13.0%; Score 15.6; DB 10; Length 45; Best Local Similarity 63.2%; Pred. No. 2.6e+04; Matches 24; Conservative 0; Mismatches 14; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCTCGATATCACCACCGGAGACGGTGACCGTGGTCCC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30 ACCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCC 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNÁ
ORGANISM! Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 60
US-09-147-142-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        윱
```

RESULT 61 | US-09-896-915-9

```
RESULT 58
US-09-899-980A-24/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-004-633-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
APPLICANT: Millan, Kenneth, J.
APPLICANT: Millan, Ivar J.
APPLICANT: Millan, Ivar J.
APPLICANT: Millan, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Roy, Margaret An
APPLICANT: Stewar, Timothy A.
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Millans, D. Mickey
CURRENT FILING DATE: 10466-14
FRIOR FILING DATE: 2000-02-22
FRIOR PLICATION WINBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION WINBER: DCT/US99/20944
PRIOR PLICANTON WINBER: DCT/US99/20944
PRIOR PLICANTON WINBER: DCT/US99/20944
PRIOR PLICANTON WINBER: DCT/US99/20944
PRIOR APPLICANTON WINBER: DCT/US99/20944
PRIOR APPLICANTON WINBER: DCT/US99/20944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 13.2%; Score 15.8; DB 16; Longth 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-909-008B-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR PELLING DATE: 1999-12-10
PRIOR PILLING DATE: 1999-12-10
PRIOR PILLING DATE: 1999-12-20
PRIOR PELLING DATE: 1999-12-20
PRIOR PELLING DATE: 1999-12-20
PRIOR PELLING DATE: 1999-12-20
PRIOR PILLING DATE: 1999-12-20
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: PCT/US99/21547 PRIOR APPLICATION NUMBER: PCT/US99/21089 PRIOR FILING DATE: 1999-10-05 PRIOR FILING DATE: 1999-10-05 PRIOR FILING DATE: 1999-11-09 PRIOR FILING DATE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US99/28313
FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/US99/28564
FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1999-12-02
APPLICATION NUMBER: PCT/US99/28565
FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
```

```
APPLICANT: Lloyd, Clarc M.
APPLICANT: Lloyd, Clarc M.
APPLICANT: McCarthy, Sean A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATHENT AND TITLE OF INVENTION: COMPOSITIONS OF INCHENDERS.
FILE REPERENCE: HS3-128.
CURRENT APPLICATION NUMBER: US/:0/004.633
CURRENT APPLICATION NUMBER: EARLIER FILING DATE: 1999-06-02
PRIOR FILIKE DATE: EARLIER FILING DATE: 1999-06-02
PRIOR PLILKE DATE: EARLIER FILING DATE: 1995-06-03
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/409,583
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/409,583
PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1995-06-05
PRIOR PLILKE DATE: EARLIER FILING DATE: 1995-06-05
NUMBER OF SEQ. ID NOS: 49
SOFTHARE: Release FILING DATE: 1995-03-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9: Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 13.0%; Score 15.6; DB 10: Length 31; Best Local Similarity 70.0%; Pred. No. 2.3e+04; Matches 21; Conservative 0: Mismatches 9; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
13.01. Score 15.6: DB 9: Length 31;
Best Local Similarity 70.08; Pred. No. 2.3e+04. Welches 2.1: Conservative 0. Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42 CCACTCCAGAGGATTCAGGGTTCCAGGG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CE-09-899-980A 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-147-11/c
. Sequence 11, Application US/09147142
. Patent No. US20020018749A1
. GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 59
```

Sequence 29, Application US/10004633 Publication No. USZ0030069196A1 GENERAL INFORMATION: APPLICANT: Levinson, Douglas A.

0-004-633-29/c

us-09-676-436-3\_copy\_3264\_3383.rnpb

```
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     T: Genentech, Inc.
T: Ashkenazi, Avi
T: Botstein, David
T: Desnoyers, Luc
T: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      င်
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and nucleic TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
13.2%; Score 15.8; DB 9; Length 45;
Best Local Similarity 74.1%; Pred. No. 2.2e+04;
Matches (20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Synthetic Oligonuclectide Probe
US-09-907-652-323
PRIOR FILING DATE: 1999-09-15
PRIOR PELICATION NUMBER: PCT/US99/21547
PRIOR PLICATION NUMBER: PCT/US99/21547
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-10-05
PRIOR PLICATION NUMBER: PCT/US99/28114
PRIOR PLICATION NUMBER: PCT/US99/28113
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR PLICATION NUMBER: PCT/US99/28565
PRIOR PLICATION NUMBER: PCT/US99/28565
PRIOR PLICATION NUMBER: PCT/US99/30095
PRIOR PLICATION NUMBER: PCT/US99/30095
PRIOR PLICATION NUMBER: PCT/US99/30099
PRIOR PLICATION NUMBER: PCT/US99/30099
PRIOR PLICATION NUMBER: PCT/US99/30099
PRIOR PLICATION NUMBER: PCT/US99/30999
PRIOR PLICATION NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1999-12-26
PRIOR PELICATION NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1999-12-26
PRIOR PELICATION NUMBER: PCT/US09/30999
PRIOR PELING DATE: 1999-12-26
PRIOR PELICATION NUMBER: PCT/US09/30999
PRIOR PELICATION NUMBER: PCT/US09/30999
PRIOR PELICATION NUMBER: PCT/US09/30999
PRIOR PLING DATE: 1909-12-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/909,320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 323, Application US/09009120
Patent No. US2002013240A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: ASINGARIA, AVI
APPLICANT: Botstein, David
APPLICANT: Taton, Dan L.
APPLICANT: Faton, Dan L.
APPLICANT: Ferrara, Napoleone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin I.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fong, Sherman
Gao, Wel-Qiang
Gerber, Hanspeter
Geritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 55 |
US-09-909-320-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 13.24; Score 15.8; DB 10; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-909-320-323
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: PCT/USO0/04414
PRIOR FILIAG DATE: 1999-02-26
PRIOR PLICATION NUMBER: US 60/145,048
PRIOR PLICATION NUMBER: US 60/145,698
PRIOR PLICATION NUMBER: US 60/146,222
PRIOR PLICATION NUMBER: PCT/US99/20594
PRIOR PLICATION NUMBER: PCT/US99/21547
PRIOR PLICATION NUMBER: PCT/US99/21691
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR PLICATION NUMBER: PCT/US99/28565
PRIOR PLICATION NUMBER: PCT/US99/28056
PRIOR PLICATION NUMBER: PCT/US99/28099
PRIOR PLILMG DATE: 1999-11-20
PRIOR PLILMG DATE: 1999-12-16
PRIOR PLILMG DATE: 1999-12-17
PRIOR PLILMG DATE: 1999-12-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28 CCCCACATACTCCACAGGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RECULT 56
US-09-009-008-088B-313/C
US-09-009-088B-313. Application US/09909088B
: Patent No. US20020146709A1
: GENERAL INFORMATION
: APPLICANT: Genentech, Inc.
```

us-09-676-436-3\_copy\_3264\_3383.rnpb

ö

0: Gaps

```
IIILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TILE OF INVENTION: Acids Encoding the Same
TILE REPEREE: 104: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                            Ouery Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservalive 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                CYHER INFORMATION: Synthetic Oligonucleotide Probe US-09-903-823-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TILE OF INTERFICE 10465-14
CURRENT PAPLICATION NUMBER: US/09/907,652
CURRENT PILIAG DATE: 2002-01-16
PRIOR APPLICATION NUMBER: US/09/907,652
CURRENT FILIAG DATE: 2002-01-16
PRIOR FILIAG DATE: 2002-01-16
PRIOR FILIAG DATE: 1099-07-07
PRIOR FILIAG DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,659
PRIOR APPLICATION NUMBER: US 60/145,559
PRIOR FILIAG DATE: 1999-07-28
PRIOR FILIAG DATE: 1999-07-28
PRIOR FILIAG DATE: 1999-07-39
PRIOR FILIAG DATE: 1999-07-99
PRIOR FILIAG DATE: 1999-09-09
PRIOR FILIAG DATE: 1999-09-09
PRIOR FILIAG DATE: 1999-09-09
PRIOR FILIAG DATE: 1999-09-09
PRIOR FILIAG DATE: 1999-09-19
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/USS9/30911
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/USS9/3099
PRIOR APPLICATION NUMBER: PCT/USS0/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goddard, A. Goddard, A. Goddard, A. Gramaldi, Christopher J. Gurney, Austin I., Hillan, Kenneth, J. Kljavin, Kenreth, J. Kljavin, Kenreth, P. Pan, James Paoni, Nicholas F. Roy, Margeret Ann Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, War-Olang
Gerber, Hanspeter
Geritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tumas, Dante:
Williams, P. Mickey
wood, William, I.
                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genericch, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PPLICART: Williams, P. Mickey
TILE OF INVENTION: Secreted and Transmembranc Polypeptides and Nucleic
TILE OF INVENTION: Acids Encoding the Same
                                                                                                   0; Gaps
                                           Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/09.823
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: US/09/65,350
PRIOR PADELOATION NUMBER: US 60/143,048
PRIOR PADELOATION NUMBER: US 60/143,048
PRIOR PADELOATION NUMBER: US 60/145,698
PRIOR PADELOATION NUMBER: US 60/145,222
PRIOR APPLICATION NUMBER: US 60/145,222
PRIOR APPLICATION NUMBER: US 60/145,222
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: PCTUCS94,2034
PRIOR ELIKE DATE: 1999-07-28
                                                                                                                                           PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILICATION NUMBER: PCT/US99/21090
PRIOR PLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RIOR FILING DATE: 1999-11-29
RIOR APPLICATION NUMBER: PCT/US99/28313
RIOR FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILLING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ER: PCT/US99/28564
9-12-02
                                                                                                                                                                                                                                                                                                            Sequence 323, Application US/09903823
Publication No. US20030104381A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gurney, Austin I.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Micholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                         Ashkemati, Avi
Ashkemati, Avi
Botstein, David
Desnoyers, Luc
Exton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Ggo, Wei Glang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                       09-903-823-323/c
     US-09-906-760A-323
                                                                                                                                                                                          윰
                                                                                                                                                 õ
```

```
APPLICANT: Wood, William, I.
THE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,760A
CURRENT FILING DATE: 2001-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/USO0/04414
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1000-02-22
PRIOR FILING DATE: 1000-02-22
PRIOR PAPLICATION NUMBER: US 60/143.048
PRIOR APPLICATION NUMBER: US 60/146.22
PRIOR APPLICATION NUMBER: US 60/146.22
PRIOR APPLICATION NUMBER: US 60/146.22
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-00-13
PRIOR FILING DATE: 1999-00-13
PRIOR FILING DATE: 1999-00-13
PRIOR PRILING DATE: 1999-00-13
PRIOR PRILING DATE: 1999-00-13
PRIOR PRILING DATE: 1999-00-15
PRIOR PRILING DATE: 1999-00-15
PRIOR PRILING DATE: 1999-11-29
PRIOR PRILING DATE: 1999-11-29
PRIOR PRILING DATE: 1999-11-29
PRIOR PRILING DATE: 1999-11-29
PRIOR PRILING DATE: 1999-11-20
PRIOR PRILING DATE: 1999-12-20
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
Publication No. US20030096340Al
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gerritsen, Mary E. Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                     Wei-Oiang
                                                                                                                                                                                                                                                    APPLICAR: "CANALISM TIME OF THE OFFICE OFFIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
13.2%; Score 15.8; DB 9; Length 45;
Best Local Similarity 74.1%; Pred. No. 2.2e+04;
Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-903-925-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DR FILING DATE: 1999-11-29
DR APPLIANTON NUMBER: PCT/US99/28313
DR APPLIANT DATE: 1999-11-30
DR APPLICATION NUMBER: PCT/US99/28564
DR FILING DATE: 1999-12-02
SR APPLICATION NUMBER: PCT/US99/28565
DR FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29 CACCICATIAICCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/USOO/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF (SEQ ID NOS: 423
SEQ ID NO 3-7-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOR APPLICATION NUMBER: PCT/US99/30911
IOR FILING DATE: 1999-12-20
IOR APPLICATION NUMBER: PCT/US99/30999
IOR FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LICATION NUMBER: PCT/US99/30095 (NG DATE: 1999-12-16
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Pan, Janes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
              APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
```

OTHER INFORMATION: Synthetic Oligonucleotide Probe

TYPE: DNA ORGANISM: Artificial Sequence

RESULT 52 | US-09-906-760A-323/c : Sequence 333. Application US/09906760A

```
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
CURRENT APPLICATION NUMBER: US/09/902,615
CURRENT FILING DATE: 2001-12-14
Prior application data removed. Check file wrapper or PALM.
NUMBER OF SED ID NOS: 423
FOR TITLE OF THE OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 13.2%; Score 15.8; DB 9; Length 45: Best Local Similarity 74.1%; Pred. Mb. 2.28404, Metches 7; Indels Marches 70; Conservative 7; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-615-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ., Application US,
..kurkal involved 133
Application Wo. US20300066233
Applicat: Ashkenazi, Avi
Applicat: Ashkenazi, Avi
Applicat: Ashkenazi, Avi
Applicat: Botscin, Uavid
Applicat: Botscin, Uavid
Applicat: Botscin, Uavid
Applicat: Botscin, Uavid
Application Periors, Uavid
Cathor: Pong, Sherman
"LICANT: Good Hei-Olang
CANT: Good Hei-Olang
CANT: Good Hei-Olang
NT: Goodwaki, Paul J.
T: Grimmidi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                  Ferrara Nanoteone
Filancif, Ellen
Fong, Sherman
Gao, Well Qiang
Gerritsen, Mary E.
Gedritsen, Mary E.
Goddard, A.
Codowski, Paul 2.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 51
20-09-303-925-323/c
Sequence 323, Application US/09903925
Publication No US2030066233A1
GENERAL INFORMATION:
                                                                             Sequence 323, Application US/09902615
Publication No. US2003009200241
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mather, James Pan, James Pan, Nicholas F. Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                         APPLICANT: Genetuch, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan L.
    RESULT 50
US-09-902-615-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic ITLE OF INVENTION: Acids Encoding the Same ILLEREPEEME: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
13.24; Score 15.8; DB 9; Length 45;
Best Local Similarity 74.14; Pered No. 2.24-04.
Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-979-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT FILING DATE. 2001-0-17
PRIOR PLILING DATE. 2001-0-17
PRIOR PLILING DATE. 2001-0-17
PRIOR PLILING DATE. 1999-07-07
PRIOR APPLICATION WUNBER: US 60/146,222
PRIOR APPLICATION WUNBER: US 60/146,222
PRIOR APPLICATION WUNBER: US 60/146,222
PRIOR APPLICATION WUNBER: PCT/US99/2094
PRIOR PILING DATE: 1999-09-13
PRIOR PLILING DATE: 1999-09-15
PRIOR APPLICATION WUNBER: PCT/US99/21090
PRIOR PLILING DATE: 1999-10-19
PRIOR PRILING DATE: 1999-11-30
PRIOR PRILING DATE: 1999-11-30
PRIOR PLILING DATE: 1999-12-03
PRIOR PRILING DATE: 1999-12-03
PRIOR PLILING DATE: 1999-12-03
PRIOR PRILING DATE: 1999-12-03
PRIOR PLILING DATE: 1999-12-03
PRIOR PRILING DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 10466-14
CURRENT APPLICATION MUMBER: US/09/907,979
CURRENT FILING DATE: 2001-07-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 11 111 11 11 11 111111111 28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                           Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Renneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Artificial Sequence
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                         Pan, James
Paoni, Micholas F.
```

ŝ

```
ITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic ITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 74.1%; Pred. No. 2.2e+04;
Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-713-323
                  TITLE OF INVERTION: SCHOOL STATE OF THE CALL OF THE CALL OF STATE OF THE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,713
CURRENT PILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/09/902,713
CURRENT FILING DATE: 2000-09-18
PRIOR FILING DATE: 1009-07-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR PAPLICATION NUMBER: US 60/145,698
PRIOR PAPLICATION NUMBER: US 60/145,698
PRIOR APPLICATION NUMBER: US 60/145,229
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-09-18
PRIOR FILING DATE: 1999-10-15
PRIOR FILING DATE: 1999-10-15
PRIOR FILING DATE: 1999-10-15
PRIOR FILING DATE: 1999-11-29
PRIOR PRILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR PLILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/28056
PRIOR APPLICATION NUMBER: PCT/US99/28056
PRIOR PRILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-12-00
PRIOR PRILICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-00
PRIOR PRILICATION NUMBER: PCT/US99/30099
PRIOR FILING DATE: 1999-12-00
PRIOR PRILICATION NUMBER: PCT/US99/30099
PRIOR FILING DATE: 1999-12-00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29 CACCICATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 323, Application US/C9907979; Publication No. US20030082542A1; GENERAL INFORMATION: A APPLICANT: Genentech, Inc.
APPLICANT: Ashkenzal, Avi APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Desnoyers, Luc
Eaton, Dan L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 49
US-09-907-579-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local, Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-614-123
                      PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILIAM DATE: 1999-09-13
PRIOR PLICATION NUMBER: PCT/US99/21090
PRIOR PLICATION NUMBER: PCT/US99/21090
PRIOR PLICATION NUMBER: PCT/US99/21090
PRIOR PLICATION NUMBER: PCT/US99/21089
PRIOR PLICATION NUMBER: PCT/US99/23089
PRIOR PLICATION NUMBER: PCT/US99/28114
PRIOR PLICATION NUMBER: PCT/US99/28114
PRIOR PLILIMG DATE: 1999-11-29
PRIOR PLILIMG DATE: 1999-11-20
PRIOR PLILIMG DATE: 1999-11-20
PRIOR PLILIMG DATE: 1999-12-02
PRIOR PLILIMG DATE: 1999-12-03
PRIOR PLILIMG DATE: 1999-13-03
PRIOR PLILIMG DATE: 1999-13-03
PRIOR PLILIMG DATE: 1999-13-03
PRIOR PLILIMG DATE: 1999-13-03
PRIOR PLING DATE: 1990-13-03
PLENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5-09-902-71j-123/c
Sequence 323, Application US/09902713
Publication No. US20030082541A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Genentech, Inc.
Abhkenal, Avi
Botstein, David
Desnoyers, Luc
Exton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Glang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ioni, Nicholas F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'umas, Daniel
```

ð

```
ö
                                            APPLICANT: Tumas, tamples
APPLICANT: Tumas, Daniel
APPLICANT: Williams P. Mickey
APPLICANT: Williams P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REPRENCE: 10466-11.
FILE REPRENCE: 10466-11.
FILE REPRENCE: 10466-11.
FILE REPRENCE: 1046-11.
FILE REPRENCE: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
IITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Mucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match. 13.2%: Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-075-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT FILLNG DATE: 2001-010
PRIOR PELING DATE: 2001-010
PRIOR FLILNG DATE: 2001-05-18
PRIOR PELING DATE: 2003-05-18
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PELING DATE: 1999-07-26
PRIOR APPLICATION WUMBER: PG-07/0599/20594
PRIOR APPLICATION WUMBER: PG-07/0599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CACCTCATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/09/902,634 CURRENT FILING DATE: 2001-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 323, Application US/09902634 Publication No. US20030082540A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: AShematic And APPLICANT: Ashematic And APPLICANT: Bosnoyers, luc APPLICANT: Bosnoyers, luc APPLICANT: Earnar Hapoleone APPLICANT: Ferrara Hapoleone APPLICANT: Forga Sherman APPLICANT: Foog Sherman APPLICANT: Geober; Hanspeter APPLICANT: Geober; Hanspeter APPLICANT: Geober; Hanspeter APPLICANT: Geotifican Hary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kljavin, Ivar J.
Rather, Jennie P.
Pan, James
Paoni, Nicholas F.
Roy, Hargaret Ann
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Stewart, Timothy A. Tumas, Deniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 47
US-09-902-634-323/c
    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ouery Match 13.24; Score 15.8; DB 9; Length 45; Matches Similarity 74.18; Pred. No. 2.2e+04. Marches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-759-323
                                                                                                      PRIOR FILING DATE: 1999-07.

PRIOR FLILING DATE: 1999-07.

PRIOR FLILING DATE: 1999-09-13

PRIOR FLILING DATE: 1999-09-13

PRIOR FLILING DATE: 1999-09-13

PRIOR PRIJOR TOWNER: PCT/US99/20944

PRIOR PRIJOR PRIZING DATE: 1999-09-13

PRIOR PRIJOR PRIZING DATE: 1999-09-15

PRIOR PRILOR DATE: 1999-00-15

PRIOR PRILOR DATE: 1999-10-05

PRIOR PRILOR DATE: 1999-11-09

PRIOR PRILOR DATE: 1999-12-02

PRIOR PRILOR DATE: 1999-12-03

PRIOR PRIOR PRILOR NUMBER: PCT/US99/30999

PRIOR PRILOR DATE: 1999-12-03

PRIOR PRILOR DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29 CACCICATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION WURBER: PCT/USO0/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 323
LENGTH: 45
                                                                              PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILLING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :-09-905-075-323/c
Sequence 323, Application US/09905075
Publication No. US20030077583A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gao, Wel-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Paoni, Micholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Geneticch, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botscein, David
APPLICANT: Botscein, David
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
```

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Mucleic IITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Prod. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-575-323
PRIOR ELICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FLILING DATE: 1999-12-02
PRIOR FLILING DATE: 1999-12-02
PRIOR FLILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-16
PRIOR PLILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/902,759
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR APPLICATION NUMBER: DG 00/143,048
PRIOR APPLICATION NUMBER: US 60/143,048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RENUL .
US-00-902-759-323/C
Sequence 323, Application US/09902759
Publication No. US20030077654A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazl, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
Gerber, Hønspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 323
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŏ
                                                                                                                                                                                                                                                                                                                                   ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same FILE REPREMECE: 10466-14 Encoding the Same CURRENT APPLICATION NUMBER: US/09/907,575
CURRENT APPLICATION NUMBER: US/09/907,575
PRIOR PRICATION NUMBER: US 60/143,048
PRIOR PILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR APPLICATION NUMBER: US 60/145,222
PRIOR FILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-28
PRIOR PRILING DATE: 1999-09-07-8
                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                   Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                         CTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-088-323
                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ 1D NOS: 423
SEQ 1D NO 1323
LENGTH: 145
TYPE: DNA
PREATURE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: PCI/US99/20944
PRIOR FILLMO DATE: 1999-09-18
PRIOR APPLICATION NUMBER: PCI/US99/21090
PRIOR FILLMG DATE: 1999-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUNBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3/33, Application US/09907575 Publication No. US20030073079A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Geriltsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 44 | US-09-907-57,5-323/c
                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                        윱
```

Gaps

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: 1046-14 CORRENT ELLOR NUMBER: US/09/505.088 CORRENT FILENCO DATE: 2001-07-12 PRIOR APPLICATION NUMBER: 09/65,350 PRIOR FILING DATE: 2000-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR FILING DATE: 2000-02-22
PRIOR PLICATION NUMBER: US 6C/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 6C/146,522
PRIOR APPLICATION NUMBER: US 6C/146,222
PRIOR FILING DATE: 1999-07-26
PRIOR PLILING DATE: 1999-07-28
PRIOR PLILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LIOR APPLICATION NUMBER: PCT/US99/28214 ILOR FILLING DATE: 1939-11-29 ILOR APPLICATION NUMBER: PCT/US99/28313 ILOR FILLING DATE: 1999-11-30
28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US99/21547
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCI/US99/28565
FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCI/US99/30095
FILING DATE: 1999-12-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILMS DATE: 1999-12-18
PRIOR PILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION UNDRER: ECT/2599/30999
PRIOR FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/USS9/20944
FILLING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCT/US99/21090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCT/US99/23089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US99/28564
FILLING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US00/04414
FILING DATE: 2000-02-22
                                                                                                                                                                                                            Asherati, Inc.
Asherati, Avi
Asherati, Avi
Beloni, David
Desnoyers, Luc
Exton, Dan L.
Ferrata, Mapoleone
Filvaroff, Ellen
Fong, Sherman
Goo, Wei-Olang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddesti, Paul J.
Goddosski, Paul J.
Grinnaldi, Christopher J.
Grinnaldi, Christopher J.
                                                                                             RESULT 43
US-09-905-018-323/c
US-09-905-213, Application US/09905088
; Publication No. US20030073077A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gurney, Austin L.
Hilan, Kenneth, J.
Kijavin, Ivar J.
Hather, James
Pan, James
Pan, James
Pan, Witholas F.
Nov, Margaret Ann
Stewart, Timoth A.
Humas, Daniel
Hilliams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1999-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic ITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 13:24; Score 15:8; DB 9; Length 45; Best Local Similarity 74:18; Pred. No. 2.2e-04. 22e-04. Matches 20; Conservative 0; Mismarches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-909-064-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR PLING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR PRIOR PLING DATE: 1999-07-08
PRIOR PRIOR DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-09-18
PRIOR PRIOR DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION WUNBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR PILING DATE: 1999-12-16
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PELING DATE: 1999-12-20
PRIOR PELING DATE: 1999-12-20
PRIOR APPLICATION WUNBER: PCT/US00/00219
PRIOR PILING DATE: 2000-01-05
NUNBER OF SEQ ID NOS: 423
SEQ ID NO 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REPRENCE: 10466.1
CURRENT APPLICATION NUMBER: 05/09/909.064
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/0500/04414
PRIOR FILING DATE: 2000-02-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US99/23089
PELING DAFE: 1999-10-05
APPLICATION NUMBER: PCT/US99/28214
PILING DAFE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INC DATE: 1999-11-29
LICATION WINBER: PCT/US99/28313
INC DATE: 1999-11-30
LICATION WINBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-12-02
APPLICATION NUMBER: PCT/US99/28565
FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCT/US99/21547
                                                                                                                                                                       Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                        Roy, Margaret Ann
Stewart, Timothy A.
Tumes, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                         Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                 Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                               Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: PCT
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-381-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 11 111 11 11 11 11111111 11 28 CCCCACATACTCCACAGGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : Sequence 323, Application US/09909064
; Publication No. US20030059772A1
; GENERAL INFORMATION:
             Stewart, Timothy A. Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsetein, Bavid
APPLICANT: Besnoyers, Luc
APPLICANT: Eston, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 42
US-09-909-064-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local;Similarity 74.1%; Pred. No. 2.2e+04. Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-904-553-323
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR PLILING DATE: 1999-07-26
PRIOR PLILING DATE: 1999-07-26
PRIOR PLILING DATE: 1999-09-06
PRIOR FLILING DATE: 1999-09-01
PRIOR FLILING DATE: 1999-09-13
PRIOR FLILING DATE: 1999-09-15
PRIOR PLILING DATE: 1999-09-15
PRIOR FLILING DATE: 1999-09-15
PRIOR PLILING DATE: 1999-10-05
PRIOR PLILING DATE: 1999-11-09
PRIOR PLILING DATE: 1999-11-09
PRIOR PLILING DATE: 1999-11-09
PRIOR PLILING DATE: 1999-11-09
PRIOR PLILING DATE: 1999-11-00
PRIOR PLILING DATE: 1999-11-00
PRIOR PLILING DATE: 1999-11-00
PRIOR PLILING DATE: 1999-12-02
PRIOR PLILING DATE: 1999-12-02
PRIOR PLILING DATE: 1999-12-02
PRIOR PLILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR PLING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
PRIOR PRIOR PRIOR PLICATION NUMBER: PCT/US99/3091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 323, Application US/09905381 Ubil Catton No. US20030059829A1 GRNERAL INFORMATION:
APPLICANT Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Desnoyers, Luc
Eatcon, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-qlang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM; Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genentech, Inc.
Ashkenazi, Avi
Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 41
US-09-905-381-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
```

g õ

```
PPLICANT: WOOD WILLIAM. 1.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: 0.066-14

CURRENT APPLICATION NURBER: US/09/904.553

PRIOR FILING DATE: 2002-01-22

PRIOR FILING DATE: 2000-02-22

PRIOR FILING DATE: 1999-07-07

PRIOR APPLICATION NUMBER: US 60/143,048

PRIOR APPLICATION NUMBER: US 60/145,698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 13.2%: Score 15.8; DB 9; Length 45; Rust Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-925-323
PRIOR FILING DATE: 1999-11-29
PRIOR PLICATION NUMBER: PCT/US99/28313
PRIOR PLICATION NUMBER: PCT/US99/28313
PRIOR PLICATION NUMBER: PCT/US99/28564
PRIOR PELICATION NUMBER: PCT/US99/28565
PRIOR PELICATION NUMBER: PCT/US99/30095
PRIOR PELICATION NUMBER: PCT/US99/30095
PRIOR PELICATION NUMBER: PCT/US99/30091
PRIOR FILING DATE: 1999-12-20
PRIOR PELICATION NUMBER: PCT/US99/30099
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-30
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ 1D NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ferfara Neocleone
Filtware (f. Ellen
Fong, Sherman
Gao, Wat.Oldan
Gaother, Hanspeer
Gertitsen, Mary E.
Godorski, Paul J.
Gotorski, Paul J.
Gurney, Austin L.
Hillan, Kenech, J.
Kijavin, Tvar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 40
US-09-904-533-323/c
US-09-904-553-323/c
Sequence 123, Application US/09904553
Publication No. US2003059628A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roy, Margaret Ann
Stewart, Timothy A.
Tumas. Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Generatech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Botsnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                            ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CANT: Stewart, Timothy A.
CANT: Tumas, Dantel,
CANT: Hillams, Dantel,
CANT: Wood, Milliam, I.
OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                              Ouery Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 24.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels 0; Gaps
                                                                                                                                     : OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-056-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR FILLING DATE: 2000-02-23.
PRIOR FILLING DATE: 2000-02-23.
PRIOR FILLING DATE: 1999-07-07.
PRIOR FILLING DATE: 1999-07-07.
PRIOR FILLING DATE: 1999-07-07.
PRIOR PILLING DATE: 1999-07-26.
PRIOR PILLING DATE: 1999-07-26.
PRIOR PILLING DATE: 1999-07-28.
PRIOR PILLING DATE: 1999-09-08.
PRIOR PILLING DATE: 1999-09-18.
PRIOR PILLING DATE: 1999-09-18.
PRIOR PILLING DATE: 1999-09-17.
PRIOR PILLING DATE: 1999-09-17.
PRIOR PILLING DATE: 1999-09-17.
PRIOR PILLING DATE: 1999-09-17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TILE REFERENCE: 10466-14
CURRENT APPLICATION WUMBER: US/09/907,925
CURRENT FILMS DATE: 2001-07-17
PRIOR APPLICATION WUBBER: 09/665,350
PRIOR FILMS DATE: 2000-09-18
PRIOR PAPLICATION WUMBER: CT/US00/04414
PRIOR PELICATION WUMBER: CT/US00/04414
PRIOR PELICATION DATE: 2000-09-28
                                                                                                                                                                                                                                                                                                                                               29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                              28 CCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 323. Application US/09907925
PUBLICATION NO. US2003004435A1
APPLICANT GenenceD, Inc.
APPLICANT Ashkenail, Avi
APPLICANT BOLSTEIN, David
APPLICANT BOLSTEIN, David
APPLICANT Renovers Luc
APPLICANT Renovers Luc
APPLICANT Renov Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Kather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wel-Giang
Gerber, Hanspeter
Gertisen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                 TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -09-907-925-323/c
             SEQ 1D NO 323
                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                      8
```

0; Gaps

28 CCCCACATACTCCACAGCCCAGAGGGA 2

```
APPLICAMY: Roo, M. Micholas F. APPLICAMY: Roo, W. Margaret Ann APPLICAMY: Roo, W. Margaret Ann APPLICAMY: Start: fincthy A. APPLICAMY: Start: fincthy A. APPLICAMY: Start: fincthy A. APPLICAMY: Thumas, Donel B. Mickey A. APPLICAMY: Williams, P. Mickey A. APPLICAMY: Williams, P. Mickey A. APPLICAMY: Williams, P. Mickey A. APPLICAMY: Models C. CORRENT FILMS DATE: 3002-01-22 CORRENT FILMS DATE: 3002-01-23 CORRENT COR
                                                                                               RESULT 38
US-09-905-056-323/C
: Sequence 323, Application US/09905056
: Publication No. US20030054441A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                          Genericch, Inc.
T. Sakkenazi, Avi
T. Botsrein, David
Desnoyers, Luc
Eston, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gao, Wel-Qiang
Gerber, Hanspeter
Geritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Wood, William, I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same
CURRENT APPLICATION NUMBER: US/09/904.462

CURRENT FILING DATE: 1001.07-13

PRIOR APPLICATION NUMBER: PCT/US00/0414

PRIOR APPLICATION NUMBER: PCT/US00/0414

PRIOR FILING DATE: 1999-07-26

PRIOR PRILICATION NUMBER: PCT/US99/20594

PRIOR FILING DATE: 1999-09-13

PRIOR FILING DATE: 1999-09-13

PRIOR FILING DATE: 1999-09-13

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21049

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21049

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21049

PRIOR PLIJNG DATE: 1999-09-15

PRIOR PRILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER IMPORMATION: Synthetic Oligonucleotide Probe US-09-904-462-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION WUMBER: PCT/US99/28564
PRIOR FLIANG DATE: 1999-12-02
PRIOR FLIANG DATE: 1999-12-02
PRIOR PLIANG DATE: 1999-12-02
PRIOR PLIANG DATE: 1999-12-02
PRIOR PLIANG DATE: 1999-12-16
PRIOR PLIANG DATE: 1999-12-16
PRIOR PLIANG DATE: 1999-12-16
PRIOR PLIANG DATE: 1999-12-16
PRIOR PLIANG DATE: 1999-12-20
PRIOR PLIANG DATE: 1999-12-20
PRIOR PLIANG DATE: 1999-12-20
PRIOR FLIANG DATE: 1999-12-20
PRIOR FLIANG DATE: 1999-12-20
PRIOR FLIANG DATE: 1999-13-20
PRIOR PLIANG DATE: 2000-01-05
SEQ 1D NO 323
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JICATION NUMBER: PCT/US99/28313 (NG DATE: 1999-11-30
                                                                                                                                   Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                             Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE: |
Gao, Wel-Qlang
Gerber, Hanspeter
Gerritsen, Mary E.
```

29 CACCTCATTATCCCCACTCCAGAGGGA 55

ò

```
ö
   APPLICANT: Wood, William, T
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION WHERE: 09,665,350
PRIOR APPLICATION WHERE: PCT/US00/04114
PRIOR PILING DATE: 2000-05-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Owery Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. Mo.-2.2e+04.2 Metches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-903-943-323
                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 1997-07-10
PRIOR FILING DATE: 1997-07-26
PRIOR FILING DATE: 1997-07-26
PRIOR PILING DATE: 1997-07-26
PRIOR FILING DATE: 1997-07-26
PRIOR FILING DATE: 1997-07-26
PRIOR PELING DATE: 1997-07-26
PRIOR PELING DATE: 1997-07-28
PRIOR PELING DATE: 1997-07-29
PRIOR PELING DATE: 1997-07-18
PRIOR PELING DATE: 1997-10-05
PRIOR PELING DATE: 1997-10-05
PRIOR PELING DATE: 1997-11-29
PRIOR PELING DATE: 1997-11-29
PRIOR PELING DATE: 1997-11-29
PRIOR PELING DATE: 1997-11-30
PRIOR PELING DATE: 1997-11-30
PRIOR PELING DATE: 1997-11-30
PRIOR PELING DATE: 1997-11-30
PRIOR PELING DATE: 1997-12-30
PRIOR PELING DATE: 2000-01-05
PRIOR PELING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CACCTCATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : Sequence 323, Application US/39904462; Publication No. US20030054351A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Geneniech, inc.
APPLICANT: ANikecazi, Avi
APPLICANT: Bocscoin, David
APPLICANT: Desnoycis, luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fivaroff, Ellen
APPLICANT: Fory, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 37
US-09-904-462-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ć
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ch 13.24; Score 15.8; DB 9; Length 45: I Similarity 74.1%; Pred. No. 2.2e+04; 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-903-520-323
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FLILMS OF DETE: 1999-09-10
PRIOR RELIGATION NUMBER: PCT/US99/2044
PRIOR PLILMS OFFE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/20945
PRIOR PLILMS OATE: 1999-09-15
PRIOR PLILMS OATE: 1999-09-15
PRIOR PLILMS OATE: 1999-09-15
PRIOR PLILMS OATE: 1999-10-15
PRIOR PLILMS OATE: 1999-10-15
PRIOR PLILMS OATE: 1999-11-10
PRIOR PLILMS OATE: 1999-12-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 323, Application US/09903943
Sequence 323, Application US/09903943
Publication No. US20030054349Al
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fong, Sherman
Gao, Wel-Qlang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Si
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
```

ò g

```
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Hilliams, P. Mickey
APPLICANT: Wood, Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REPERENCE: 1046-61.
FILE REPERENCE: 1046-61.
FILE REPERENCE: 1046-61.
FILE REPERENCE: 1046-61.
FILE REPERENCE: 2001-07-11
PRIOR FILING DATE: 2001-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match 13.2%: Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-692-323
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: 1999-12-02
PRIOR FILING DATE: 1999-12-05
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEX ID NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: PCT/USOO/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
Grrep, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Hather, Jennie P.
Pan, James
Panni, Hicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 323, Application US/09903520 Publication No. US20030054401A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Geo, Wel-Qlang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ashkenazi, Avi
Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 35
US-09-903-520-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: NOY, MAIGHT MAIN
APPLICANT: WOOL MAIN MAIN
APPLICANT: WILLIAM, PARTIES, 2001-07-10
TITLE OF INVERTION: Acids Encoding the Same
FILE RFERRENCE: 1066-14
CURRENT APPLICATION NUMBER: US/09/902,692
CURRENT FILING DATE: 2001-07-2
PRIOR APPLICATION NUMBER: US 50/143,049
PRIOR PRICE DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 50/145,698
PRIOR PRICE DATE: 1999-07-26
PRIOR PRICE DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR PRICEATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-13
PRIOR PRICEATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR PRICEATION NUMBER: PCT/US99/21090
                                                                                                                                                                                 0; Gaps
                                                                                                                             Ouery Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 720; Conservative 0; Mismatches 7; Indels
                                        . OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-907-794-123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                           28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28113
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                        US-09-902-692-323/c
: Sequence 323, Application US/09902692
; Publication No. US20030054400A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pan, James
Paoni, Micholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT Genentech, Inc.
APPLICANT Ashkenazi, Avi
APPLICANT: BOSSELIN, David
APPLICANT: BASSONYETS, Luc
APPLICANT: Exton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           We1-Qlang
                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                         qq
```

Gaps

```
PRIOR ADPLICATION NUMBER: PCT/US99/21090
PRIOR PILING DAFE: 1999-09-15
PRIOR PLILING DAFE: 1999-09-15
PRIOR PLILING DAFE: 1999-09-15
PRIOR PLILING DAFE: 1999-09-15
PRIOR PILING DAFE: 1999-00-15
PRIOR PILING DAFE: 1999-00-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Goddard, A. Goddard, Christopher J. Gramaldi, Christopher J. Gramaldi, Christopher J. Gurney, Austin L. Hillan, Kenneth, J. Hilper, Jenneth, J. Hather, Jenne P. Paoni, Margaret Ann Stewert, Timothy A. Tumas, Daniel P. Tumas, Daniel
    Sequence 323, Application US/09907794 Publication No. US20030049677A1
                                                                               TT. Genericch, Inc.
TS. Ashkenazi, Avi
TS. Bossecin, David
Descreta, David
TF. Ecton, Dan L.
TF. Forrara, Mapoleone
TF. Flvaroff, Ellen
TF. Forga, Sherran
TF. Forga, Mary E.
TF. Goddarf. A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                     APPLICART: STEAURIL, Timochy A.
APPLICART: Steauric, Timochy A.
APPLICART: Wood, Williams, P. Mickey
APPLICART: Wood, Williams, P. Mickey
APPLICART: Wood, Williams, P. Mickey
TITLE OF INVENTION: Acids Encoding the Same
FILE OF INVENTION WINBER: US/00/10/12
PRIOR PRLING DATE: 2001-07-12
PRIOR PRLING DATE: 1000-02-22
PRIOR PLLING DATE: 1099-07-07
PRIOR PLLING DATE: 1099-07-17
PRIOR PLLING DATE: 1099-11-20
PRIOR PLLING DATE: 1099-11-30
P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred No. 2.2e+0, Warches 20; Conservative 9; Mismarches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-904-956-323
Goddard, A. Goddard, A. Goddwashi, Paul J. Grimaldi, Christopher J. Gurney, Austin L. Hillan, Remeth, J. Klyavin, Ivar J. Klyavin, Ivar J. Marher, Jennie P. Pan, James
                                                                                                                                                                                                                                                                                                       Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
```

APPLICANT: MAJILIANS: F. MILLEY
APPLICANT: MAJILIANS: F. MILLEY
ITIE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITIE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITIE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
APPLICATION NUMBER: US/09/907.794
CURRENT FILLE DATE: 2001-07-17
CURRENT FILLE DATE: 2001-07-17
PRIOR PLICATION NUMBER: PCT/US00/0414
PRIOR PLICATION NUMBER: OS 60/143.048
PRIOR FILLENG DATE: 1999-07-07
PRIOR FILLENG DATE: 1999-07-02
PRIOR FILLENG DATE: 1999-07-02
PRIOR FILLENG DATE: 1999-07-05
PRIOR FILLENG DATE: 1999-07-05
PRIOR PLICATION NUMBER: PCT/US99/20544
PRIOR PLICATION NUMBER: PCT/US99/20944
PRIOR PLICATION NUMBER: PCT/US99/20944 FRIDK ADDILING STATE 1939-120-03
PRIOR FILLING DATE 1999-11-05
PRIOR FILLING DATE 1999-11-05
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR FILLING DATE: 1999-11-10
PRIOR PAPLICATION NUMBER: PCT/US99/28154
PRIOR PAPLICATION NUMBER: PCT/US99/28165
PRIOR PAPLICATION NUMBER: PCT/US99/28065
PRIOR PAPLICATION NUMBER: PCT/US99/30095
PRIOR PRIOR PAPLICATION NUMBER: PCT/US99/30095
PRIOR PRILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR APPLICATION NUMBER: PCT/US00/00215
PRIOR NUMBER: PCT/US00/00215
PRIOR APPLICATION NUMBER: PCT/US00/00215
PRIOR PCT/US00/00215
PRIOR APPLICATION NUMBER: PCT/US00/00215
PRIOR APPLICATION NUMBER: PCT/US00/00215
PRIOR APPLICATION NUMBER: PCT/US00/00215
PRIOR APPLICATION NUMBER: PCT/US00/00215
PRIOR PCT/US00/00215

ö

0; Caps

RESULT 33 US-09-907-794-323/C

g ò

```
Query Match 13.2%: Score 15.8: DB 9; Length 45; Best Local Similarity 74.1%: Pred. Mo. 2.2e+04; Matches 20: Conservative 0: Misqatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : OTHER INFORMATION: Synthetic Oligonuqleotide Probe US-09-904-119-323
                         1 11 111 111 11 11 11111111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CACCTCATTATCCCCACTCCAGAGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 32
US-09-904-956-323/c
Sequence 323, Application US/09904956
: Publication No. US20030049622A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT Genemech, Inc.
APPLICANT SAFREATA. Avi
APPLICANT BOLSKEIN, DAVI
APPLICANT BOSNOSES, LUC
APPLICANT EALON, Dan L.
APPLICANT FETRATA, NAPOLEONE
APPLICANT FORMAN SHETTEN
APPLICANT FORMAN SHETTEN
APPLICANT GENEMAN SHETTEN
APPLICANT SHETTEN
APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Artificial Sequence
              FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT; Williams, P. Mickey
APPLICANT; Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-736-323
PRIOR FILING DATE: 1999-09-13
PRIOR PTLING DATE: 1999-09-13
PRIOR PAPLICATION NUMBER: PCT/US99/21090
PRIOR PAPLICATION NUMBER: PCT/US99/21547
PRIOR PAPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-10-05
PRIOR PAPLICATION NUMBER: PCT/US99/21089
PRIOR PAPLICATION NUMBER: PCT/US99/2814
PRIOR APPLICATION NUMBER: PCT/US99/2814
PRIOR PAPLICATION NUMBER: PCT/US99/2813
PRIOR PLLING DATE: 1999-11-30
PRIOR PLLING DATE: 1999-11-30
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-03
PRIOR PLLING DATE: 1999-12-03
PRIOR PLLING DATE: 1999-12-03
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR APPLICATION NUMBER: PCT/US99/30991
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR APPLICATION NUMBER: PCT/US09/00219
PRIOR APPLICATION NUMBER: PCT/US09/00219
PRIOR APPLICATION NUMBER: PCT/US09/00219
PRIOR APPLICATION NUMBER: PCT/US09/00219
PRIOR PLLING DATE: 2000-01-05
PRIOR PLLING DATE: 2000-01-05
PRIOR PLING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 323, Application US/05934119
Publication No. US20030049621A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Generatech, Inc.
Ashbenzi, Avi
Botstein, David
Desnoyers, Luc
Eston, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
Gao, Wel'Olang
Gerricsen, Margeter
Gerricsen, Mary E.
Gooderd, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pan, James
Paoni, Micholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 31
US-09-904-119-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
```

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic IITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                           owery Match 13.2%: Score 15.8: DB 9: Length 45: Best Local Similarity 74.1%: Pred. No. 2.24-04. Matches 20: Conservative 0: Mismatches 7: Indels Matches 10: Conservative 0: Mismatches 7: Indels
                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-903-786-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REPRENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902.736
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 09/65.350
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-38
FRIOR FILING DATE: 1599-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-35
NUMBER OF SEQ ID NOS: 423
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR PELLING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29 CACCTCATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 323, Application US/09902736 Publication No. US20030049676A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Godowski, Paul J.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kljavin, Tvar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ashemazi, Avi
Ashemazi, Avi
Botstein, David
Desnoyers, Luc
Eston, Dan L.
Ferdara, Napoleono
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P. Mickey
                                                                                                                                                                                                                                                                            TYPE: DNA
QRGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         William,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Williams,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-902-736-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ç
                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INVENTION: Secreted and Transmembrane Polypeptides and Nucleic INVENTION: Acids Encoding the Same
                                                               Gaps
                                                               ..
      Query Match 13.2%; Score 15.8; DB 9; Length 45: Best Local Stallarity 7.1%; Pred. Mo. 2.2e-04; Matches 20; Conservative 0; Matches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TILE REERICACT. 10460-11
CURRENT APPLICATION NUMBER: US/09/903,786
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/665.350
PRIOR APPLICATION NUMBER: PCT/0500/04414
PRIOR PELING DATE: 2000-09-18
PRIOR PELING DATE: 2000-00-22
PRIOR PELING DATE: 1999-00-26
PRIOR FILING DATE: 1999-00-26
PRIOR FILING DATE: 1999-00-26
PRIOR FILING DATE: 1999-00-26
PRIOR FILING DATE: 1999-00-26
PRIOR APPLICATION NUMBER: CG/146,222
PRIOR APPLICATION NUMBER: CG/146,222
PRIOR PELING DATE: 1999-00-38
PRIOR APPLICATION NUMBER: PCT/US99/21094
PRIOR PELING DATE: 1999-09-18
PRIOR PELING DATE: 1999-10-05
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR FILING DATE: 1999-12-02
                                                                                                               29 CACCICATIATCCCCACTCCAGAGGGA 55
                                                                                                                                            28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godous, A. Godooski, Paul J. Grimaldi, Christopher J. Gurney, Austin L. Hillan, Kenneth, J. Kljavin, Ivar J. Kljavin, Ivar J. Hather, Jennie P. Pan, James Pan, James Pan, Michais F. Pan, Michais F. Roy, Michais F. Roy, Michais P. Roy, Michais P. Roy, Michais P. Roy, Michael J. Tumes, Daniel
                                                                                                                                                                                                                                                                                            Sequence 323, Application US/09903786 Publication No. US20030044793A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Genentech, Inc.
APPLICANT: Genentech, Inc.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Desnoyers, Luc
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fong, Sherman
Gao, Wel-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ILE REFERENCE: 10466-1
                                                                                                                                                                                                                                               RESULT 29
US-09-903-786-323/c
```

us-09-676-436-3\_copy\_3264\_3383.rnpb

```
APPLICANT: Padoni, Mardater Ann APPLICANT: Roy, Margater Ann APPLICANT: Stewart, Timothy A. APPLICANT: Stewart, Timothy A. APPLICANT: Stewart, Timothy A. APPLICANT: Tumas, P. Millam. I. APPLICANT: Williams, P. Mickey APPLICANT: Williams, P. Millam. I. TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: 1066-14 CURRENT FATING DATE: 2001-07-11 PRIOR PAPLICATION NUMBER: US 60/143.04 PRIOR PELLING DATE: 1999-07-07 PRIOR PAPLICATION NUMBER: US 60/145.69 PRIOR FILING DATE: 1999-07-05 PRIOR PELLING DATE: 1999-07-05 PRIOR PELLING DATE: 1999-07-05 PRIOR PELLING OATE: 1999-07-06 PRIOR PELLING DATE: 1999-07-06 PRIOR APPLICATION NUMBER: PCT/US99/2094 PRIOR PELLING DATE: 1999-07-08 PRIOR PELLING OATE: 1999-09-18 PRIOR PELLING OATE: 1999-09-18 PRIOR PELLING DATE: 1999-09-18 PRIOR PELLING DATE: 1999-09-13 PRIOR PELLING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Synthetic Oligonuqleotide Probe US-09-903-749A-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/USS9/10213
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PTLING DATE: 1999-12-20
PRIOR PPLICATION NUMBER: PCT/USO0/00219
PRIOR PLILING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCT/US99/28413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US99/28$65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ICATION NUMBER: PCT/US99/23489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: PCT/US99/28$64
PRIOR FILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: PCT/US99/282
PRIOR FILING DATE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCT/US99/21
                                                                                                                                                                                                                                                                                                                                                                  Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                         Fong, Sherman
Gao, Wel-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                             Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                     Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 1999-09-15
APPLICATION NUMBER: PCT,
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1999-10-05
Genentech, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                         Goddard, A.
                                                                                                                                                                APPLICANTY POY, MAIDTALS F.
APPLICANTY POY, MAIDTALS F.
APPLICANTY TUMES, DEATE AND
APPLICANTY WILLIAMS, P. MICKEY
APPLICANTY MAIDTENERS, DEATE AND
TITLE OF INWENTION: Accide Encoding the Same
FILE PERSENCE. 10466-14
APPLICANTON MUMBER: US/09/902.903
CURRENT APPLICANTON MUMBER: US/09/902.903
PRIOR FILING DATE: 1099-07-26
PRIOR PLING DATE: 1099-07-26
PRIOR PLING DATE: 1099-07-26
PRIOR PLING DATE: 1099-07-26
PRIOR PLING DATE: 1099-07-26
PRIOR PRILICANTON NUMBER: PCT/US99/20594
PRIOR PLING DATE: 1099-09-36
PRIOR PLING DATE: 1099-09-37
PRIOR PRILICANTON NUMBER: PCT/US99/20594
PRIOR PLING DATE: 1099-09-37
PRIOR PRILICANTON NUMBER: PCT/US99/20319
PRIOR PLING DATE: 1099-109-12
PRIOR PLING DATE: 1099-109-12
PRIOR PLING DATE: 1099-109-12
PRIOR PLING DATE: 1099-109-12
PRIOR PLING DATE: 1099-12-02
PRIOR PLING DATE: 1099-12-02
PRIOR PLING DATE: 1099-12-02
PRIOR PRILICANTON NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR PRILICANTON NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR PRILICANTON NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR PRILICANTON NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR PRILICANTON NUMBER: PCT/US99/30999
PRIOR PLING DATE: 1099-12-02
PRIOR P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
Best Local Similarity 74.1%; Pred. No. 2.2e+04;
Matches 20; Conservative 0; Nismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-902-903-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28 ccccacaracrecaegecccagagga 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-903-749A-323/c
: Sequence 323, Application US/09903749A
: Publication, Wo. US20030045693A1
: ENRRAL INFORMATION:
                                                              Xljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

```
Ouery Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Wismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-906-700-323
CURRENT APPLICATION NUMBER: US/09/906.700
CURRENT FILING DATE: 2000-09-18
PRIOR PILING DATE: 2000-09-18
PRIOR PLILING DATE: 2000-09-18
PRIOR PLILING DATE: 2000-07-27
PRIOR PLILING DATE: 10995-07-07
PRIOR PLILING DATE: 10995-07-07
PRIOR PLILING DATE: 1099-07-26
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PLILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: ECT/US99/20594
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR APPLICATION NUMBER: PCT/US99/20944
                                                                                                                                                                                                                                                                                                                                                                                    PRIOR PLLING DATE: 1999-09-13
PRIOR PLLING DATE: 1999-09-13
PRIOR PLLING DATE: 1999-09-13
PRIOR PLLING DATE: 1999-09-15
PRIOR PLLING DATE: 1999-09-15
PRIOR PLLING DATE: 1999-10-05
PRIOR PLLING DATE: 1999-10-05
PRIOR PLLING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/21069
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR APPLICATION NUMBER: PCT/US99/280-64
PRIOR PLLING DATE: 1999-12-16
PRIOR PLLING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PLLING DATE: 2000-01-05
PRIOR PLLING DATE: 2000-01-05
PRIOR PLLING DATE: 2000-01-05
PRIOR PLLING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 323, Application US/09902903; Publication No. US20030044839A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Goddarc, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ferrara, Napoleone
Filvaroff, Eller,
Fong, Sherman
Gao, Wei-Glang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genentech, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Den L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 27
US-09-902-903-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Paori, Vanco
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumes, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, Williams, I.
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-906-646-323
                                                                                          PRIOR FILING DATE: 1999-19-15
PRIOR FILING DATE: 1999-19-15
PRIOR FILING DATE: 1999-10-05
PRIOR PELICAL DATE: 1999-10-05
PRIOR PELICAL DATE: 1999-11-09
PRIOR PILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-05
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR PAPLICATION NUMBER: PCT/US99/28565
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-16
PRIOR PELING DATE: 1999-12-10
PRIOR PELING DATE: 1999-12-20
PRIOR PELING DATE: 1999-12-20
PRIOR PELING DATE: 3090-12-30
PRIOR PELING DATE: 3090-12-30
PRIOR PELING DATE: 3090-12-30
PRIOR PELING DATE: 3000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28 CCCCACATACTCCACAGCCCAGAGGGA 2
              PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
                                                                        APPLICATION NUMBER: PCT/US99/21547
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J
Godowski, Paul J
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 323, Application US/09906700 Publication No. US20030039972A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerber, Hanspeter
Geriltsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Generech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Bocsetein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Raton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wei-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 26
US-09-906-700-323/c
```

g õ

ö

0; Gaps

```
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Tradsmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreted and Tradsmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14.
CURRENT APPLICATION WINNER: US/09/904,786
CURRENT FILING DATE: 2001-09-18
PRIOR APPLICATION WINNER: 09/665,350
PRIOR PILIANG DATE: 2000-09-18
NUMBER OF SEQ ID NOS: 423
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       membrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 13.2%: Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred, No. 2.26+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                              ; FFATINES:
OTHER INFORMATION: Synthetic Oligonyclectide Probe
US-09-904-786-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: Secreted and Transmembrane PITLE OF INVENTION: Actids Encoding the Same FILE OF INVENTION: Actids Encoding the Same FILE OF INVENTION: Actids Encoding the Same FILE EPERENCE: 10466-14

CURRENT FILING DATE: 2002-02-22

PRIOR FILING DATE: 1099-07-07

PRIOR FILING DATE: 1999-07-07

PRIOR FILING DATE: 1999-07-07

PRIOR FILING DATE: 1999-07-07

PRIOR PILING DATE: 1999-07-07

PRIOR PILING DATE: 1999-07-28

PRIOR PILING DATE: 1999-07-28

PRIOR PILING DATE: 1999-09-08

PRIOR PILING DATE: 1999-09-08

PRIOR PILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CACCICATIAICCCCACICCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Goddard, A.
Goddarski, Paul J.
Goddarski, Paul J.
Grimaldi, Christopher J.
Grimaldi, Christopher J.
Grimaldi, Christopher J.
Kijavin, Kenneth, J.
Kijavin, Kenneth, J.
Kijavin, Tavar J.
Raher, Jenie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 323, Application US/09906646; Publication No. US20030039971A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Roy, Hargaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Hickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conentech, Inc.
Ashkenazi, Avi
Bostotein, David
Bostovers, Luc
Extoro, Dan L.
Ferrara Mapoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wel-Oldang
Gerber, Hanspeter
Gertisen, Mary E.
Goddard
                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 25
US-09-906-646-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Owery Watch
13.2%; Score 15.8; DB 9; Length 45;
Best Local Stallarity 74.1%; Pred. No. 2.2e-04.
Matches 20; Conservative 0; Manatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-909-204-323
PRIOR APPLICATION NUMBER: PCT/USS9/20594
PRIOR PILLIAG DERE: 1999-09-06
PRIOR APPLICATION NUMBER: PCT/USS9/20544
PRIOR PILLIAG DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/USS9/21030
PRIOR PILLIAG DATE: 1999-09-15
PRIOR PILLIAG DATE: 1999-09-15
PRIOR PELLIAG DATE: 1999-10-15
PRIOR PELLIAG DATE: 1999-10-16
PRIOR PELLIAG DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PELLIAG DATE: 1999-11-29
PRIOR PELLIAG DATE: 1999-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28 CCCCACATACTCCACAGGCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fong, Sherman
Gao, Met-Olang
Gerritsen, Mary E.
Goddard, Paul J.
Godowski, Paul J.
Grimald, Christopher J.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 24
US-09-904-746-3131/c
Sequence 323. Application US/09904786
Publication No. US20033039959A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Askenazi, Avi
Askenazi, Avi
Botstein, David
Desnoyers, Luc
Eston, Dan L.
Ferrara, Napoleone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM, Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pan, James
Paoni, Micholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kljavin, Ivar J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
```

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic IITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 13.2%: Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e-04; Matches 20; Conservalive 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-904-859-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REPERENCE: 10466-14
CORRENT APPLICATION NUMBER: US/09/09/204
CORRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: DCT/US00/04114
PRIOR FILING DATE: 2000-03-22
PRIOR FILING DATE: 1990-07-07
PRIOR FILING DATE: 1990-07-07
PRIOR FILING DATE: 1990-07-26
PRIOR FILING DATE: 1990-07-26
PRIOR FILING DATE: 1990-07-26
PRIOR FILING DATE: 1990-07-26
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-05
PRIOR FILING DATE: 1999-12-06
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-06
PRIOR FILING DATE: 1999-12-07
PRIOR FILING DATE: 1999-12-07
PRIOR PRICATION NUMBER: PCT/US99/3099
PRIOR FILING DATE: 1999-11-06
PRIOR FILING DATE: 1999-11-06
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28 CCCACATACTCCACAGGGG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  T. Genentech, Inc.
Ashkensal, Avi
T. Botstein, David
T. Botstein, David
T. Eaton, David
T. Eaton, David
T. Ferrara, Napoleone
T. Filvaroff, Ellen
Folds, Sherman
Gerber, Hansputer
Gerritsen, Mary E.
Goddard, A.
Goddard, A.
Goddard, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Pan Iames
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 23
US-09-909-509-323/c
Sequence 323, Application US/09509204
; Publication No. US203030036061A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumas, Dariel
Williams, P. M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ô
                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic ITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                            7; Indels 0; Gaps
                                                                                                                                                                      Opery Match 13.24; Score 15.8; DB 9; Length 45; Best Local Similarity 74.14; Pred. Mo. 2.2+040. Warches 20; Conservative 0; Mismatches 7; Indels
                                                    ; DTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-904-820-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 10466-14

CURRENT PRICES: 10466-14

CURRENT PRICATION NUMBER: US/09/904,859

CURRENT PLICATION NUMBER: US/065,350

PRIOR FILING DATE: 2000-09-18

RIOR FILING DATE: 2000-09-18

RIOR RILING DATE: 2000-09-18

PRIOR APPLICATION NUMBER: PCT/USO0/04414

PRIOR APPLICATION NUMBER: US/0/14,048

PRIOR APPLICATION NUMBER: US/0/14,568

PRIOR APPLICATION NUMBER: US/0/14,569

PRIOR RILING DATE: 1999-07-26

PRIOR PLILING DATE: 1999-07-26

PRIOR PLILING DATE: 1999-07-28

PRIOR PLILING DATE: 1999-09-13

PRIOR PLILING DATE: 1999-09-13

PRIOR PLILING DATE: 1999-09-13

PRIOR PLILING DATE: 1999-09-13

PRIOR PLILING DATE: 1999-09-15

PRIOR PLILING DATE: 1999-09-15

PRIOR PLILING DATE: 1999-09-15

PRIOR PRILING DATE: 1999-09-15

PRIOR PLILING DATE: 1999-09-15

PRIOR PLILING DATE: 1999-09-15

PRIOR PRILING DATE: 1999-09-15

PRIOR REPLICATION NUMBER: PCT/US99/2214

PRIOR PLILING DATE: 1999-09-15

PRIOR PRILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5:09-904-859-323/c
Sequence 333, Application US/09904859
Publication No. US20030056060A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       i, Ivar J.
Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gao, Wel-Olang
Gerber, Hanspeter
Gerritsen, Mary E.
        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LICANT: Generatech, Inc.
LICANT: Ashkenazi, Avi
LICANT: Botstein, David
LICANT: Desnoyers, Luc
LICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                             ò
```

us-09-676-436-3\_copy\_3264\_3383.rnpb

```
TITLE OF INVENTION: Secreed and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Secreed and Transmembrane Polypeptides and Nucleic FILKE OF INVENTION: Secreed and Transmembrane Polypeptides and CURRENT APPLICATION NUMBER: US/09/904 (820 CURRENT FILING DATE: 2000-07-13 PRIOR PRIOR PELING DATE: 2000-09-18 PRIOR PELING DATE: 2000-09-18 PRIOR PELING DATE: 2000-09-18 PRIOR PELING DATE: 2000-09-18 PRIOR PELING DATE: 1999-07-07 PRIOR APPLICATION NUMBER: US/04/45.608 PRIOR PELING DATE: 1999-07-07 PRIOR APPLICATION NUMBER: US/09/2094 PRIOR PELING DATE: 1999-07-07 PRIOR APPLICATION NUMBER: US/09/2094 PRIOR PELING DATE: 1999-07-13 PRIOR PELING DATE: 1999-07-13 PRIOR PELING DATE: 1999-09-13 PRIOR PELING DATE: 1999-09-13 PRIOR PELING DATE: 1999-09-13 PRIOR PELING DATE: 1999-09-15 PRIOR PELING DATE: 1999-12-02 PRIOR APPLICATION NUMBER: PCT/US99/2099 PRIOR PELING DATE: 1999-12-02 PRIOR PELING DATE: 1999-12-02 PRIOR APPLICATION NUMBER: PCT/US99/2099 PRIOR PELING DATE: 1999-12-02 PRIOR PELING DATE: 1999-12-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Goddowski, Paul J.
Gordowski, Paul J.
Grimaldi, Christopher J.
Gurrey, Austin L.
Hillan, Renneth, J.
Kljavin, Ivar J.
Sequence 323, Application US/09904820
Publication No. US20030036094A1
SENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Ilmothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William,
                                                                                                                                                                                                                                                                                                                                                                                                                                         Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nicholas F.
                                                                                                     LICANT: Genericch, Inc.
LICANT: Ashkenazi, Avi
LICANT: Botstein, David
LICANT: Desnoyers, Luc
LICANT: Eston, Dan L.
                                                                                                                                                                                                                                                                                                                                                               Fong, Sherman
Gao, Wei-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic FILE OF INVENTION: Acids Encoding the Same FILE OF INVENTION NUMBER: 105/99/907.942

CURRENT APPLICATION NUMBER: 105/99/907.942

PRIOR FILING DATE: 2000-02-22

PRIOR FILING DATE: 1999-07-26

PRIOR PLICATION NUMBER: 105/99/07.94

PRIOR FILING DATE: 1999-07-26

PRIOR FILING DATE: 1999-03-13

PRIOR FILING DATE: 1999-03-13

PRIOR FILING DATE: 1999-10-05

PRIOR FILING DATE: 1999-10-05

PRIOR FILING DATE: 1999-11-05

PRIOR PLICATION NUMBER: PCT/US99/2864

PRIOR FILING DATE: 1999-12-06

PRIOR FILING DATE: 1999-12-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-907-942-323
Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Renneth, J.
                                                                                                                                                                                                                                                     APPLICANT: Pan, James
APPLICANT: Pool, Micholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Scewar, Timothy A.
APPLICANT: Yumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                               Kljavin, Ivar J.
Mather, Jennie P.
```

õ

RESULT 21 1 US-09-904-820-323/c

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic FITLE OF INVENTION: Acids Encoding the Same FITLE OF INVENTION WHERE: US/09/907,613

CURRENT APPLICATION NUMBER: US/09/907,613

PRIOR RPLIAND DATE: 2001-01.17

PRIOR APPLIAND NAME: 2001-01.17

PRIOR APPLIAND NAME: 2006-02.22

PRIOR APPLIAND NUMBER: US 60/146,222

PRIOR FILING DATE: 1999-07-08

PRIOR FILING DATE: 1999-07-08

PRIOR PLIAND NUMBER: US 60/146,222

PRIOR PLIAND NUMBER: US 60/146,222

PRIOR PLIAND NUMBER: US 60/146,222

PRIOR PLIAND NUMBER: PCT/US99/2054

PRIOR PLIAND NUMBER: PCT/US99/2054

PRIOR PLIAND NUMBER: PCT/US99/2054

PRIOR PLIAND NUMBER: PCT/US99/2059

PRIOR PLIAND NUMBER: PCT/US99/2059

PRIOR PLIAND NUMBER: PCT/US99/2051

PRIOR PLIAND NUMBER: PCT/US99/2051

PRIOR APPLICATION NUMBER: PCT/US99/2056

PRIOR PLIAND DATE: 1999-11-07

PRIOR PLIAND DATE: 1999-11-07

PRIOR PRILING DATE: 1999-11-07

PRIOR PRILING DATE: 1999-12-06

PRIOR PRILING DATE: 1999-12-06

PRIOR PRILING DATE: 1999-12-06

PRIOR PLIAND DATE: 1999-12-06

PRIOR PRIOR PLIAND NUMBER: PCT/US99/3091

PRIOR PLIAND DATE: 1999-12-06

PRIOR PLIAND DATE: 1999-12-06

PRIOR PRIOR PLIAND NUMBER: PCT/US99/3091

PRIOR PLIAND DATE: 1999-12-06

PRIOR PLIAND DATE: 1999-12-06

PRIOR PRIOR PLIAND NUMBER: PCT/US99/3091

PRIOR PLIAND DATE: 1999-12-06

PRIOR PRIOR DATE: 1999-12-06

PRIOR PLIAND DATE: 1999-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Synthetic Gligonucleotide Probe US-09-907-613-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29 CACCTCATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28 CCCACATACTCCACAGCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-907-942-323/C
US-09-907-942-323. Application US/09607942
- Publication No. US20030027146A1
- GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASNKenazi, Avi
Bosistein, David
Bosistein, David
Beston, Dan L.
Ferrara, Napoleone
Flyaroff, Ellen
Frog, Sherman
Gao, Wei-Olang
Gerber, Hanspeter
Gertitsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 13.24; Score 15.8; DB 9; Length 45; Best Local Similarity 74.18; Pred No. 2.24-04, Marches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-906-838-323
                                         PRIOR PILING DATE: 1999-19-108
PRIOR PLICATION NUMBER: PCT/US99/20044
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21010
PRIOR PELLING DATE: 1999-09-15
PRIOR PELLING DATE: 1999-09-15
PRIOR PELLING DATE: 1999-10-15
PRIOR FILING DATE: 1999-10-15
PRIOR FILING DATE: 1999-11-29
PRIOR PILING DATE: 1999-11-29
PRIOR PILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29 CACCTCATTATCCCCACTCCAGAGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Renneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 323, Application US/09907613 Publication No. US20030027145A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Genentech, Inc.
Abhkenazi, Avi
Botstein, David
Botstein, David
Botstein, David
Baton, Dan L.
Exton, Dan L.
Filvaroff, Ellen
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gao, Wel-Qlang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Paonl, Nicholas F.
                              PRIOR FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 19
US-09-907-613-323/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
```

ò

```
APPLICANT: Wood, William, I. TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Migmatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                : FEATURE:
OTHER INFORMATION: Synthetic Oligoniciectide Probe
05-09-906-742-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TILLE PERFERENCE: 10466-14
CURRENT APPLICATION MURBER: US/09/906 818
CURRENT APPLICATION MURBER: US/09/906 818
CURRENT FILING DATE: 2000-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR PELING DATE: 2000-09-12
PRIOR PELING DATE: 2000-00-22
PRIOR APPLICATION NUMBER: US 60/143,04
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-28
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-05
PRIOR PAPLICATION NUMER: PCT/US99/30951
PRIOR TILING DATE: 1999-12-26
PRIOR APPLICATION NUMER: PCT/US99/30911
PRIOR PILING DATE: 1999-12-20
PRIOR PELING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1990-12-20
PRIOR PILING DATE: 2000-01-05
NUMBER OF SED ID NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28 CCCCACATACTCCACAGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fong, Sherman
Gao, Wel-Qlang
Grber, Hanspeter
Gerritsen, Mary E.
Goddwatl, A.
Godowstl, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGULT 18
US-09-906-813-132/C
US-09-906-813- Application US/09906818
Publication No. US20030027143A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin L.
Hillan, Kenneth. J.
Kijavin, Ivar J.
Nather, Jennie P.
Pan, James
Paoni, Micholes F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Danlah
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT Genencech, Inc.
APPLICANT Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT; WILLIAMS, P. MICKEY
APPLICANT; WOOD, MILLIAMS, P. MICKEY
APPLICANT; WOOD, MILLIAMS, P. MICKEY
TITE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITE OF INVENTION: Acids Encoding the Same
FILE REPERENCE: 10466-14
CURRENT PAPLICATION WINDER: US/09/906,742
CURRENT PILLIAM DATE: 2000-07-16
PRIOR FILLIAM DATE: 2000-07-22
PRIOR FILLIAM DATE: 2000-07-22
PRIOR FILLIAM DATE: 1099-07-28
PRIOR FILLIAM DATE: 1099-07-28
PRIOR FILLIAM DATE: 1999-07-38
PRIOR FILLIAM DATE: 1999-09-18
PRIOR FILLIAM DATE: 1999-10-13
PRIOR FILLIAM DATE: 1999-11-30
                                                               Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 120; Conservative 0; Mismatches 7; Indels 0; Caps
                                                                                                                                                                                                 29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                  28 CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                             US-09-906-742-323/c
US-09-906-742-323. Application US/09906742
: Publication No. US20030023054A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gurney, Austin L.
Hillan, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Genemicch, Inc.
APPLICANT: Genemicch, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botaclein, David
APPLICANT: Desmoyers, Luc
APPLICANT: Eston, Dan L.
                  US-09-904-011-323
                                                                                                                                                                                                     ç
```

```
TITLE OF INVENTION: Secreted and Transmembrare Polypeptides and Mucleic TITLE OF INVENTION: Acids Encoding the Same FILL REPERBECE: 1046-10. Acids Encoding the Same CURRENT APPLICATION WUMBER: US/09/904.011
CURRENT PILLOR DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR ELLING DATE: 2000-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE: OTHER INFORMATION: Synthetic Oligonucleotide Probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILLING DATE: 2000-09-18
PRIOR FILLING DATE: 2000-09-18
PRIOR FILLING DATE: 2000-02-22-18
PRIOR FILLING DATE: 1999-07-07
PRIOR FILLING DATE: 1999-07-07
PRIOR FILLING DATE: 1999-07-26
PRIOR FILLING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR FILLING DATE: 1999-10-15
PRIOR FILLING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILLING DATE: 1999-10-05
PRIOR FILLING DATE: 1999-11-29
PRIOR FILLING DATE: 1999-11-30
PRIOR FILLING DATE: 1999-12-02
PRIOR FILLING DATE: 1999-12-07
PRIOR FILLING DATE: 1999-12-07
PRIOR FILLING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILLED DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR PILLIG DATE: 1999-12-20
PRIOR FILLIG DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US96/30999
PRIOR APPLICATION NUMBER: PCT/US90/00219
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILLIG DATE: 2000-61-05
NUMBER OF SEQ 1D NOS: 423
SEQ ID NO 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-09-08
APPLICATION NUMBER: PCT/US99/20944
FILING DATE: 1999-09-13
APPLICATION NUMBER: PCT/US99/21090
FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                             Goddard, A. Goddard, A. Goddard, Paristopher J. Gurney, Austin L. Hillan, Kenneth, J. Kijavin, Ivar J. Mather, Jennie P. Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pan, James
Paoni, Nicholas F.
Roy, Hargaret Ann
Stewart, Timothy A.
Tumas, Daniel
Genentech, Inc.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eston, Dan L.
Ferrara, Napoleone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                               Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Williams,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILLE REFERENCE: 10466.14
CURRENT APPLICATION NUMBER: 05/09/907,841
CURRENT FILLES DATE: 2001-11.20
PRIOR APPLICATION NUMBER: 05/01/40.22
PRIOR APPLICATION NUMBER: 05/01/40.304
PRIOR PELING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PELING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PELING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-36
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/US99/2164
PRIOR APPLICATION NUMBER: PCT/US99/2169
PRIOR APPLICATION NUMBER: PCT/US99/2169
PRIOR PELING DATE: 1999-10-15
PRIOR PELING DATE: 1999-10-15
PRIOR PELING DATE: 1999-10-05
PRIOR PELING DATE: 1999-11-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 13.2%; Score 15.8; DB 9; Length 45; Best Local Similarity 74.1%; Pred. No. 2.2e+04; Matches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-907-841-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CACCTCATTATCCCCACTCCAGGGGA 55 1 11 111 111 11 111 11111111 28 CCCCACATACTCCACAGGCCCAGAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 16
US-09-904-011-323/c
Sequence 313, Application US/09904011
Publication No. US2003000353Cal
GENERAL INPORMATION:
                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kijavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                    Serritsen, Mary E.
Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

```
APPLICANT: Tumes, Daniel APPLICANT: Tumes, Daniel APPLICANT: Williams, P. Hickey APPLICANT: Wood, Williams, P. Hickey TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic PITLE OF INVENTION: Acids Encoding the Same FILE REPERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
13.2%: Score 5.8; DB 9: Length 45:
Best Local Similarity 74.1%: Pred 50: 2.2+04.0
Aatches 20: Conservative 0: Maparches 7: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lectide Probe
                                                                                                                                                                                                                                                                                                                                                                             FILE REFRENCE.

CURRENT APPLICATION NUMBER: US/09/907 824

CURRENT APPLICATION NUMBER: US/05.350

PRIOR PLILON DATE: 2000-09-18

PRIOR PLILON DATE: 2000-09-18

PRIOR PLILON NUMBER: PCT/USOO/04/14

PRIOR PLILON DATE: 1999-07-07

PRIOR PLILON DATE: 1999-07-07

PRIOR PLILON DATE: 1999-07-07

PRIOR PLILON DATE: 1999-09-09

PRIOR PLILON DATE: 1999-09-09

PRIOR PLILON DATE: 1999-09-09

PRIOR PLILON DATE: 1999-09-09

PRIOR PLILON DATE: 1999-09-19

PRIOR PLILON DATE: 1999-09-18

PRIOR PLILON NUMBER: PCT/US99/28|

PRIOR PLILON NUMBER: PCT/US99/30|

PRIOR PLICON NUMBER: PCT/US99/30|

PRIOR PLICON NUMBER: PCT/US99/30|

PRIOR PLICON NUMBER: PCT/US99/30|

PRIOR PLICON NUMBER: PCT/US99/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 CACCTCATTATCCCCACTCCAGAGGG 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28 CCCCACATACTCCACAGCCCAGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTHER INFORMATION: Synthetic Oligonum US-09-907-824-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 15

9:09-907-841-323/c

1 Sequence 323, Application US/09907841

2 Publication No. US2002019836641

3 Publicant INFORMATION:

APPLICANT: Genentech, Inc.
                                                                                                                        Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GANISM: Artificial Sequence
                                                   Pan, James
Paoni, Nicholas F.
                 Mather, Jennie P.
                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 13.2%: Score 15.8: DB 9: Length 45: Best Local Similarity 74.1%: Pred. No. 2.2e+04: Matches 20: Conservative 0: Mismatches 7: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Synthetic Oligonuclectide Probe US-09-902-853-323
PRIOR FLUING DATE: 2000-09-18
PRIOR FLUING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PAPELICATION NUMBER: US 60/145,698
PRIOR PELING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PAPLICATION NUMBER: PCT/US99/2094
PRIOR FLLING DATE: 1999-09-06
PRIOR PLLING DATE: 1999-09-17
PRIOR PLLING DATE: 1999-09-17
PRIOR PLLING DATE: 1999-09-18
PRIOR FLLING DATE: 1999-09-18
PRIOR PLLING DATE: 1999-09-18
PRIOR PELING DATE: 1999-10-05
PRIOR PAPLICATION NUMBER: PCT/US99/21049
PRIOR PELING DATE: 1999-10-05
PRIOR PAPLICATION NUMBER: PCT/US99/21049
PRIOR PELING DATE: 1999-11-29
PRIOR PAPLICATION NUMBER: PCT/US99/2861
PRIOR PAPLICATION NUMBER: PCT/US99/2864
PRIOR PAPLICATION NUMBER: PCT/US99/28064
PRIOR PAPLICATION NUMBER: PCT/US99/28064
PRIOR PAPLICATION NUMBER: PCT/US99/28065
PRIOR PAPLICATION NUMBER: PCT/US99/28069
PRIOR PELING DATE: 1999-12-20
PRIOR PELING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28 CCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
US-09-907-824-323/C
US-09-907-824-323/C
Sequence 323, Application US/09907824
SPUBLICATION NO. US2000197671A1
GENERAL INFORMATION:
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Olang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genentech, Inc.
Ashkenazi, Avi
Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
```

g ઠ

ö

Kljavin, Ivar J.

```
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, 1.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids the coding the Same
FILE REFERENCE: 1046-614
CURRENT APPLICATION NUMBER: US/09/092.853
CURRENT FILING DATE: 2001-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 13.2%: Score 15.8; DH 9: Length 45: Best Local Similarity 74.1%: Pred. No. 2.2e+04: Matches 20: Conservative 0: Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Synthetic Oligonucleotide Probe US-09-905-291A-323
PRIOR FILING DATE: 1999-09-15
PRIOR PRILING DATE: 1999-09-15
PRIOR PRILING DATE: 1999-10-05
PRIOR PRILING DATE: 1999-10-05
PRIOR PAPLICATION NUMBER: PCT/US99/28114
PRIOR PLING DATE: 1999-11-29
PRIOR PRILING DATE: 1999-11-20
PRIOR PRILING DATE: 1999-11-30
PRIOR PRILING DATE: 1999-11-30
PRIOR PRILING DATE: 1999-11-02
PRIOR PRILING DATE: 1999-12-02
PRIOR PRILING DATE: 1999-12-02
PRIOR PRILING DATE: 1999-12-20
PRIOR PRILING DATE: 2000-01-05
NUMBER OF SEQ ID MOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 CCCCACATACTCCACACCCACAGGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ferrara Repoleone
Followorff, Ellen
Folgo Sherman
Gao, Wan-Otang
Gerritsen, Mary E.
Goddard, Wary E.
Goddowski, Paul J.
Grimaldt, Christopher J.
Gurney, Austan L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Raller, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Roy, Margaret And
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genentech, Inc.
: Ashkenazi, Avi
: Botstein, David
: Desnoyers, Luc
: Faton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: WILLIAMS, P. MICKEY
APPLICANT: WILLIAMS, P. MICKEY
APPLICANT: WILLIAMS, P. MICKEY
TITLE OF INVENTION: Secreted and Transmembranc Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembranc Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENE: 10466-14
FILE REFERENE: 10466-14
CURRENT APPLICATION NUMBER: US/09/095,291A
CURRENT PALLON DAYE: 2000-07-12
FRIOR PILLON DAYE: 2000-07-2
FRIOR PALLON NUMBER: OS 60/145,698
PRIOR FILLON DAYE: 1999-07-07
PRIOR PLICATION NUMBER: US 60/145,222
PRIOR FILLON DAYE: 1999-09-08
PRIOR FILLON DAYE: 1999-09-09
PRIOR FILLON DAYE: 1999-09-09
PRIOR FILLON NUMBER: PCT/US99/2054
PRIOR FILLON DAYE: 1999-09-13
PRIOR FILLON NUMBER: PCT/US99/2160
PRIOR FILLON DAYE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/2167
                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                             Query Match 13.2%; Score 15.8; DB 10; Length 31; Best Local Similarity 69.0%; Pred. No. 1.9e+04; Matches 20; Conservative 1; Mismatches 8; Indels 0; Gaps
CURRENT APPLICATION NUMBER: US/09/801,274
CURRENT FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 60/187,510
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 60/206,129
PRIOR FILING DATE: 2000-05-22
NUMBER OF SEQ ID NOS: 1802
SOFTHARE: FRAISEO for Windows Version 4.0
SEQ ID NO 259
SEQ ID NO 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27 CACACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CACAGCTCCTAAGSCCTCCTCCAAATGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 12
US-09-905-291A-323/c
: Sequence 323, Application US/09905291A
: Fatent No. US20020160374A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Klyavin, Ivar J.
Mather Jennie P.
Pan, James
Pann, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , Wei-Qiang
ber, Hanspeter
ritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Genentech, Inc.
APPLICANT: Ashkenari, Avi
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan Luc
                                                                                                                                                                                                                                                                  ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-801-274-259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

0: Geps

```
ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Choi et. al.
TITLE NO FUNENTION: Streptococcus pneumoniae Antigens and Vaccines
NUMBER OF ENDERTEES: Streptococcus pneumoniae Antigens and Vaccines
CORRESPONDENCE ADDRESS:
STREET: 9410 Key West Avenue
CITT: Rockville
STREET: 9410 Key West Avenue
                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
MAME/REY: misc_feature
LOCATION: (1). (4)
OTEN INFORMATION: Phosphorothicate 3'-Internucleotide Linkage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 13.5%; Score 16.2; DB 10; Length 37; Best Local Similarity 72.4%; Pred. No. 1.4e+04; Matches 21; Conservative 0; Mismatches 8; Indels (
                                                                                                                                                                                                                                                                                     Query Match 13.5%; Score 16.2; DB 9; Length 36; Best Local Similarity 72.4%; Pred. No. 1.4e+04; Matches 21; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
| MEDIDH TIFES DISACTER, 3.50 inch, 1.4Mb storage COMPUTER: HP Vectra 486/33 | OPERATING SYSTEM: MSDOS Version 6.2 | SOFTHARE: ASCIJ TEXT CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/765,272

[ FLIAM DATE: 12-7-40-2001
[ CLASSIFICATION: «UNKOWN-)
PRIOR APPLICATION NUMBER: 08/961.083

FILING DATE: CINKOWN-
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTATION NUMBER: 95,373

REGISTATION NUMBER: 95,373

REGISTATION NUMBER: 95,373

REFERENCE/DOCKET NUMBER: 98340P2
TELEPOMBUNICATION 1970-9854

TELEPHONE: (301): 309-9854
                                                                                                                                                                                                                                                                                                                                                                      34 CATTATCCCCACTCCAGAGGGATTCAGGG 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : SEQUENCE DESCRIPTION: SEQ ID NO: 378:
US-09-765-272-378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 AGTGACCCTCCTAACCCACACCTCATTAT 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . Sequence 378, Application US/09765272
: Patent No.| US20020061545A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 378:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: nucletc acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-765-272-378
```

9

ò

```
eaps .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: USA

COMPUTER READABLE FORM:

WEDJUM TYPE: Floppy disk
COMPUTER: 1BM PC Compatible
COMPUTER: TBM PC Compatible
COMPUTER: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/10/079,516
FILING DATE: 22 -Feb -2002
CLASSIPICATION NUMBER: US/10/079,516
FILING DATE: 22 -Feb -2002
CLASSIPICATION NUMBER: US/10/079,516
FILING DATE: 02 -Feb -1007
APPLICATION NUMBER: US/10/11/13
FILING DATE: 04 -FEB -199
APPLICATION NUMBER: PD 165249/1996
ATTORNEY/AGPT INFORMATION:
NAME: BNOWY, ROSET L.
RESISTRATION NUMBER: 25,618
RESISTRATION NUMBER: 25,618
RESISTRATION NUMBER: 25,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 13.3%; Score 16: DB 12; Length 44; Best Local Similarity 62.5%; Pred. No. 1.8e+04; Matches 25; Conservative 0; Mispatches 15; Indels
                                                                                                                  APPLICANT: THAMURA, TAKAYUKI
APPLICANT: THAMURA, HICARA,
HICARA, HICARA,
TOBLICANT
THAGAMA, TOSHICAN
TOKTYOSHI, Sachio
TITLE OF INVENTION: WOVEL FELINE CYTOKINE PROTEIN
NUMBER OF SEQUENCES: 26
CORRESPONDENCES: 26
CORRESPONDENCE ADORESS.
STREET: 419 Seventh Street, N.M., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Cargill, Michele
APPLICANT: Treland, James S.
APPLICANT: Lander, Eric S.
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
FILE REFERENCE: 2825.2009-001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32 CTCATTATCCCCACTCCAGAGGATTCAGGGGTTCCAGGG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41 CTIATAATCCCTGTTGTCGACGAATTGAACCTTTCTAGAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 44 Dasse pairs
LENGTH: 44 Dasse pairs
LENGTH: 44 Dasse pairs
TYPE: nucleic acid
SFRANDENESS: single
OODCOCK: linear
MOLECULE TYPE: CDNA
SPOUENE DESCRIPTION: SEC ID NO: 14:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 259, Application US/09801274; Patent No. US20020032319A1; GENERAL INFORMATION:
SEGULT 10
US-10-779-616-14/C
US-10-779-616-14, Application US/10079616
Patent No. US/20020107366Al
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                            CITY: Washington
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 11
US-09-801-274-259/c
```

ö

셤

õ

```
: TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO: 323: US-09-765-272-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               71 GITCCTGAAAATGATGGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 9410 Key West Avenue CITY: Rockville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9596, Application US/05848754A publication No. US20030073207Al GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 31 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match
Best Local Similarity 75.vv.
"---hes 21; Conservative
                                                                           STATE: Maryland
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-848-754A-9596/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      e
G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-765-272-323/c

1 Sequence 323, Application US/09765272

2 Sequence 323. Application US/09765272

3 Sequence 323. Application US/09765272

5 GENERAL INFORMATION: CONTROL 1 al.

1 TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccincs MUMBER OF SEQUENCES: 452

CORRESPONDENCE ADDRESS:

5 CORRESPONDENCE MUMAN Genome Sciences, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Owery Match

14.24: Score 17: DB 9: Length 48:
Best Local Similarity 69.74: Pred. No. 7.9e-03:
Matches 23: Conservative 0: Mismatches 10: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: 13.5 inch, 1.44 Mb floppy disk COMPUTER: 13.40 Mb floppy disk COM
                                                                                                   Sequence 30, Application US/10095627

Fublication No. Us20030027260A1

GENERAL INFORMATION:
GOGOMSKI, Paul J.
GOGOMSKI, Paul J.
GOGOMSKI, Paul J.
KANG, Metanne
FITLE OF INVENTION: Human Toll Homologues
NUMBER OF SEQUENCES, 32
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41 CCCACTCCAGAGGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13 CCCTCACTAAAGGATTGATGTTCTTGGGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY AGENT INFORMATION:
NAME: MASSCHAMO, Diane L.
REGISTRATION NUMBER: 35,600
REFERENCE/DOCKET NUMBER: 9154-2
TELECOMMUTICATION:
TELECHONE: 650/225-3416
INFORMATION FOR SEQ. 10 NO: 30:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : TOPOLOGY: Linear
: SEQUENCE DESCRIPTION: SEQ ID NO: 30:
US-10-095-627-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 48 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
                                                                      US-10-095-627-30
```

```
APPLICANT RIBOSYMC Pharmaceuticals, Inc
APPLICANT RIBOSYMC Pharmaceuticals, Inc
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Rel
TITLE OF INVENTION: Levels of Englanal Growth Factor Receptors
FILE REPERENT Levels of 1400/018)
FORENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEC ID NCS: 9645
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic acid
MANE/KEY: misc_feature
LCATION: (1). [16)
OTHER INFORMATION: 2'-0-Wethyl
NAME/KEY: misc_feature
LCATION: (18). (18)
OTHER INFORMATION: 2'-0-Wethyl
NAME/KEY: misc_feature
LCATION: (20). (21)
NAME/KEY: misc_feature
LCATION: (20). (34)
NAME/KEY: misc_feature
LCATION: (22). (34)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14.0%; Score 16.8; DB 10; Length 31; 75.0%; Pred. No. 8e+03; tive 0; Mismatches 7; Indels 0
COMPUTER: 108.05

COMPUTER: POM:

WEDJUN TYPE: DISKETCE, 3.50 inch, 1.4Mb storage
COMPUTER: HV VECTEA 486/33

COMPUTER: HV VECTEA 486/33

COMPUTER: HV VECTEA 486/33

COMPUTER: HV VECTEA 486/32

COMPUTER: HV VECTEA 486/32

COMPUTER: HV VECTEA 486/32

COMPUTER: HV VECTEA 486/32

FILICATION NUMBER: US/09/765,272

FILICATION NUMBER: 08/961/083

FILICATION NUMBER: 08/961/083

ATTORING DATE: CUNKNOWN

ATTORING DATE: CUNKNOWN

ATTORING DATE: CUNKNOWN

ATTORING DATE: CUNKNOWN

TELEPHONE: (101) 309-8504

INPORMATION FOR SEQ ID NO: 123:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: 2'-0-Methyl
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Watch 14.8%; Score 7.8; DB 10; Length 38; Best Local Similarity 67.6%; Pred. 30; 3.6e+03; Watches 25; Conservative 0; Hisdatches 12; Indels (
                                                                      14.8%; Score [7.8; DB 10; Length 38; 67.6%; Pred. 40. 3.6e+03; tive 0; Mispatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14.8%; Score 17.8; DB 10; Length 38; 67.6%; Pred. No. 3.6e+03;
Live 0; Mismptches 12; Indels (
                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BATCEL Paul L.
APPLICANT: BATCEL Paul L.
TITLE OF INVENTION: WHSC2- AN HHACI INCERCITING PROCESSING CURRENT FILLNG DATE: 2001-09-14
PRIOR APPLICATION NUMBER: US/09/951 401
CURRENT FILLNG DATE: 1999-05-07
PRIOR PPLICATION NUMBER: US 60/084.74
PRIOR FILLNG DATE: 1999-05-07
PRIOR PPLICATION NUMBER: US 60/084.74
PRIOR FILING DATE: 1999-05-08
NUMBER OF SEQ ID NOS: 72
SOFTWARE: PATCHILL VEY: 2.0
SEQ ID NO 35
LENGTH: 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Bartel, Paul L.
APPLICANT: TATURE OF SERIES, Paul L.
TITLE OF INVENTION: MMSC2- An WHACI Inferacting Protein
FILE REPERINCE: MMSC2- An WHACI Inferacting Protein
CURRENT APPLICATION NUMBER: US/09/922,101
CURRENT APPLICATION NUMBER: 08/06
PRIOR APPLICATION NUMBER: 08/306,998
PRIOR FILING DATE: 1999-55-07
NUMBER OF SEQ ID NOS: 7.2.0
                                                                                                                                                                                    2 GGGATCCACGCTGCCACGGTACATAATCGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 TITICCCAGTCACGACGAGACAGAGGATCCAGTGCT 38
                                                                                                                                                         52 GGGATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGA 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37 TATCCCCACTCCAGAGGATTCAGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 5
US-09-922-101-35
Sequence 35, Application US/09922101
Fatent No. US20020146711A1
FRIERAL INFORMATION:
                                                                                                                                                                                                                                                                                                        ; Sequence 35, Application US/09951401; Patent No. US20020115104a1; GENERAL INFORMATION:
                                                                 Query Match 14.8%;
Best Local Similarity 67.6%;
Matches 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
Best Local Similarity 67.6%
Matches 25: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . ORGANISM: Homo sapiens
US-09-951-401-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : TYPE: DNA
; ORCANISM: Homo saplens
US-09-922-101-35
       ORIGINAL SOURCE:
US-09-096-749A-23
                                                                                                                                                                                                                                                                RESULT 4
US-09-951-401-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 23, Application US/09096749A; Patent No. US20020019517A1
GENERAL INFORMATION:
APPLICAMT: Koleda, Shohel
ITILE OF INVENTION: ARTIFICIAL ANTIBODY POLYPEPTIDES
NUMBER OF SEQUENCES: 118
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schwegman, Lundberg, Woessnor & Kluth P.A.
CITT: All South Eighth Street, Ste. 1600
CITT: Mineapolis
STATE: MN
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 14.8%: Score 17.8; DB 9; Length 38; Best Local Similarity 67.6%: Pred. No. 3.6e+03; Matches 25; Conservative 0; Mismatches 12; Indels
     Sequence 13, Application US/09903412

Publication No. US2003002731941

GENERAL IMFORMATION:
APPLICATE NOISE Shohet
ITILE OF INVENTION: ARTIFICIAL ANTIBODY POLYPEPTIDES
FILE REFERENCE: 109,050021

CURRENT FILING DATE: 2001-07-11

PRIOR APPLICATION NUMBER: US 50/217,474

PRIOR FILING DATE: 2000-07-11

NUMBER OF SEQ ID NOS: 121

SOFTHAME: FeatSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52 GGGATTCAGGGGTTCCAGCGTTCCTGAAAATGATCGA 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Diskette
COMPUTER: IBH COMPATION
OPERAȚING SYSTBH: DOS
SOFTWARRE: FastESQ Version. 2.0b
CURRENT VAPLICATION DATA:
APPLICATION NUMBER: US/05/096,749A
FILING DATE: June 12, 1996
PRIOR APPLICATION NUMBER: US/05/096,749A
FILING DATE: ATTORNEY/AGENT INFORMATION:
NAME: | Ann S. VIASAIN STREET STRENEVE COCKET VIMBER: 109.034USI
REFERENEVE COCKET VIMBER: 109.034USI
TELEDAMICATION INFORMATION:
TELEDAMICATION NUMBER: 375-690
TELEDAMICATION NUMBER: 375-690
TELEDAMICATION FOR SEQ ID NO: 23:
CENCHAIN 38 base pairs
TYPE: | nucleic acid
STRANEDENESS: single
TOPOLLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                    : OTHER INFORMATION: Oligonuclectide FNSR'.
US-09-903-412-23
                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ANTI-SENSE: N
FRAGMENT, TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-096-749A-23
US-09-903-412-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
```

166   15   12   12   12   12   12   12   12	Ouery Match:    14.8%;   Score 17.8;   DB 9;   Length 38;
Sequence 16, Appl Sequence 17, Appl Sequence 18, Appl Sequence 18, Appl Sequence 11, Appl Sequence 18, Appl Sequence 11, Appl Sequence 19, Appl Sequence 19, Appl Sequence 19, Appl Sequence 19, Appl Sequence 59,	Sequence 59, Appl Sequence 59, Appl Sequence 18993, A Sequence 4623, A Sequence 75560, A Sequence 55, Appl Sequence 107, Appl Sequence 57, Appl Sequence 57, Appl Sequence 67, Appl Sequence 67, Appl Sequence 67, Appl
90 9 05-09-905-088-16 90 05-09-907-755-16 90 05-09-905-755-16 90 05-09-905-755-16 90 05-09-905-751-16 90 05-09-905-751-16 90 05-09-905-751-16 90 05-09-905-751-16 90 05-09-905-751-16 90 05-09-905-751-16 90 05-09-905-751-16 90 05-09-905-765-16 90 05-09-905-765-16 90 05-09-905-765-16 90 05-09-905-765-16 90 05-09-905-765-16 90 05-09-905-765-16 90 05-09-905-765-16 90 05-09-905-76-76 90 05-09-905-76	<b>ÄÄ</b> вавайоÄ

Copyright (C) 130 - 130			Sequence 323, App Sequence 323, App			Sequence 16, Appl Sequence 16, Appl
Copyright (c) 1993 - 2003 Compugen Ltd.  Cutoffice search, using aw model  June 17, 2003, 21:37:31; Search time 121 Seconds  June 17, 2003, 21:37:31; Search time 121 Seconds  Seconds of the search s	20000000000000000000000000000000000000	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Copyright (C) 1993 - 2003 Compugen Ltd.	20 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	29 15.88 1 31 15.88 1 32 15.88 1 33 15.88 1 34 15.88 1 36 15.88 1 37 15.88 1 37 15.88 1	388 44 40 9 11 15 5 8 8 11 15 5 8 11 1	60000000000000000000000000000000000000	66 5 1 1 5 5 6 6 7 1 1 5 5 6 7 1 1 5 5 6 7 1 1 5 5 6 7 1 1 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	747 747 748 748 748 748 748 748 748 748
Pred. Searched: Searched: Fooring tabl Searched: Fooring tabl Searched: Fooring tabl Minimum DB s Maximum DB s Maximum DB s Maximum DB s Maximum DB s Fooring tabl Searched: Fooring tabl Minimum DB s Fooring tabl Searched:  Fooring tabl	Gencore ver Copyright (c) 1993 - 2 nucleic search, using sw mc	US-09-676-436:3_COPY_326 120 120 1DEMITY_NUC Gapop 10.0 , Gapext 1.0	1029838 seqs, 724030393 residues in of hits satisfying chosen parameters: 8 seq length: 8 seq length: 50 sing: Minimum Watch 0% Naximum Match 100% Listing first 200 summaries	Published_Applications_NA:*  (1992_6/ptodata1/pubpna_NUS0_PUBCOMB.seq. 2: (2992_6/ptodata1/pubpna_NUS0_PUBCOMB.seq. 2: (2992_6/ptodata1/pubpna_NUS0_PUBCOMB.seq. 3: (2992_6/ptodata1/pubpna_NUS0_NEW_PUB.seq. 4: (2992_6/ptodata1/pubpna_NUS0_NEW_PUB.seq. 5: (2992_6/ptodata1/pubpna_NUS0_NEW_PUB.seq. 6: (2992_6/ptodata1/pubpna_NUS0_NEW_PUB.seq. 6: (2992_6/ptodata1/pubpna_NUS0_NEW_PUB.seq. 6: (2992_6/ptodata1/pubpna_NUS0_PUBCOMB.seq. 13: (2992_6/ptodata1/pubpna_NUS0_PUBCOMB.seq. 14: (2992_6/p	Oury No. 1s the number of results predicted by greater than or equal to the score of the derived by analysis of the total score of SUMMARIES  Oury Oury	8 38 9 US-09-951-402-35 Sequence 35, April 19, 19, 19, 19, 19, 19, 11, 12, 23, 19, 18, 18, 19, 105-09-103-11, 12, 3, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19

		earch time 1004 Seconds (without alignments) 3478.423 Million cell updates/sec	gcagtttag 120		
GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.	OM nucleic - nucleic search, using sw model	June 17, 2003, 20:22:15; Search time 1004 Seconds (without alignments) 3478.423 Million cell u	US-09-676-436-3_COPY_3264_3383 120 1 ccgatgccatagtgaccctcgctgctgaattgcagtttag 120	IDENTITY_NUC Gapop 10.0 , Gapext 1.0	2054640 seqs, 14551402878 residues
	OM nucleic - nu	Run on:	Title: Perfect score: Sequence:	Scoring table:	Searched:

Total number of hits satisfying chosen parameters: 839900 Minimum DB seq length: 8 Maximum DB seq length: 50 Maximum DB seq length: 50

Post-processing: Minimum Match On Maximum Match 1004
Listing first 200 summaries
Database : GenEmbl:\*
1: 9b\_bas:\*
2: qb\_btq:\*

GenEmbl: •  11. 94b_ba: •  21. 94b_ba: •  31. 94b_ba: •  51. 94b_cox: •  51. 94b_cox: •  61. 94b_cox: •  62. 94b_pa: •  63. 94b_pa: •  63. 94b_pa: •  64. 94b_cox: •  65. 94b_pa: •  65. 94b_pa: •  66. 94b_cox: •  67. 94b_pa: •  68. 94c_cox: •  68. 94c_cox	0.0000000000000000000000000000000000000
 • • •	

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description		169537 Sequenc	5334 Seque	7 Artific	1 Sednen	b Sequenc	Sections	Sequence	Sequence	Sequence	7 Seque	Sequence	9 Sequenc	2 C	o sednen	Sections	Method	4 Sequen	2 Sequenc	Sequenc	٠.	3 Sequenc	4 Sequenc	Sequence	5 Sequence	x v	4 Sequence	Sequence	Sequence 3	2 Sequ	partial C	3 Sequenc	O Sequenc	ARIOBOYY SEQUENCE AR201856 Sequence	E60008 Ceramide-bi	0 Sequenc	MAZ3338/ Sequence	B Drosophil	AX162258 Sequence	AX248180 Sequence	/ Sequence	839334 917COPIOCEI 884825 Sequence 20	8 Sequence	8 Sequenc	9 Sequenc	<b>γ</b>	Sequence	Sequenc	Sequence 3	3 Sequence	AR108942 Sequence	Novel met	3 Sequenc	H.sapiens	AR096677 Sequence	acqueint o
QI.		AR159537						AB7123	A87147	A87167	AR206377		AR206369				£27919		AR080852					A79785	AR018115	TR6723	AR011884	150977		AR120502			AR137620		E60008	AX378360		DME426898	AX162258	AX24818C	ARU1218/	A84825	AX080788	AX107698	AR005179	AR178125	158465	166583	168230	AR143573	AR166165	E33230	AX316133	HSMTCP1C	AR096677 AR096675	
Length 38	:	œ :	<b>3</b> 0 (	œ ·	• ,	٠.			'n	S	Δ.	_		^ •	n c		~	7	~ 1	٠,	٠,	ج.	80	~	N C		~	~			æ	σ.	יו רכ	n .c	. w				0	٦,	~ -						. ~	. ~	~	٦.	<b>.</b> α		~	-	<b>4</b>	
Onery Match	:	B .	e:	æ :	X) (		4.	14.0	14.3	14.3	14.3	14.3	 	7.4	2.0	14.5	14.2	14.2																					٠.	m,	٠, ٦		<u>ښ</u>	mi,	٠, د		٠,	· ~	۳.	٠.	. ~	'n	<u> </u>	<u>.</u>	17.0	
Score	÷	17.8				7 -		17.	17	17.	17.	17.	::	1 2		-	' -	~	71	1 :	9	16	16.	10	9 ,	9 9	16	16	9 4	9	16.	16.	61	9 9	15.	15.	. 4		-	. 5			15.	. 5.	. 47	15.		15.	15.		2 5	15	15.	5	2.5	:
Result No.	-	-	7	1								c 12						٦	20		23 23		į	9		i	30	33	15	Į.	١	36	1		9	7		0					1	     	52	, w		56	- 1		0 0		١.	J	0 0	

AX162680 Sequence AX17166 Oligonucleo AR02749 Sequence AR0571549 Sequence 192355 Sequence 7 A46551 Sequence 7 A4641 Sequence 21 132747 Sequence 21 132747 Sequence 21 136772 Mus musculu A40924 Sequence 55 AR183704 Sequence 55 AR183704 Sequence AX19501 Sequence AX10501 Sequence	AR093080 Sequence AR093080 Sequence AR080690 Sequence AR080692 Sequence AX13720 Sequence AX395681 Sequence AR005605 Sequence AR036065 Sequence AR036065 Sequence AR036065 Sequence AR16010 Sequence AR16010 Sequence 127674 Sequence 127675 Sequence 127675 Sequence 127677 Sequence
11 12 12 12 12 12 12 12 12 12 12 12 12 1	187 14.6 12.2 32 189 14.6 12.2 32 189 14.6 12.2 33 191 14.6 12.2 33 192 14.6 12.2 33 193 14.6 12.2 36 194 14.6 12.2 37 195 14.6 12.2 37 196 14.6 12.2 37 197 14.6 12.2 37 198 14.6 12.2 37 199 14.6 12.
AR140184 Sequence AR022070 Sequence 192866 Sequence AR076518 Sequence AR076518 Sequence AR076518 Sequence AR076518 Sequence AR076518 Sequence AR07652 Sequence AR07652 Sequence AR13410 Sequence AR15670 Sequence AR076640 Sequence AR076640 Sequence AR07610 Sequence AR07610 Sequence AR07610 Sequence AR07610 Sequence AR07640 Sequence AR1570 Sequence AR15718 Sequence AR15718 Sequence AR15808 Sequence AR163 Sequence AR163 Sequence AR163 Sequence AR163 Sequence AR163 Sequence AR164 Sequence AR164 Sequence AR21855 Sequence	AXO40471 Sequence 6 AXO40471 Sequence AR096492 Sequence AR077600 Sequence AR07117 Sequence AR078031 Sequence AX068156 Sequence AX068156 Sequence AX078199 Sequence AX158999 Sequence AX158999 Sequence AX158999 Sequence AX1010 Sequence AX1010 Sequence AX1009 Sequence AX1010 Sequence AX1010 Sequence AX1010 Sequence AX1081381 Sequence AX08381 Sequence AX08381 Sequence AX08381 Sequence AX08181 Sequence AX18665 Sequence AX18666 Sequence AX1867 Sequence
47 6 ARR140184 48 6 AR022070 48 6 AR022070 49 6 AR022070 50 6 AX076918 50 6 AX076918 50 6 AX076918 50 10 AX076918 50 10 AX076918 50 10 AX076918 50 10 AX076918 50 10 AX076918 50 10 AX071007 50 10 AX071007 50 10 AX071007 50 10 AX071007 50 10 AX071007 50 6 AR120808 50 6 AR120	
256 68 88 88 88 88 88 88 88 88 88 88 88 88	22222222222222222222222222222222222222

```
Linear PAT 29-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear PAT 18-MAR-2002
                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
Rukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Futheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cohen.D., Blumenfeld.H., Chumakov,I., Abderrahim.H. and Bihain,B. Obesity associated biallelic marker maps
Patent: WO 0206525-A 5 24-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (bases 1 to 44)
| PestRa.5. and Kockoto.5.V.
| Cells expessing II..10 receptor and the CRFB4 gene product, an II..10 receptor accessory protein
| II..10 receptor accessory protein
| Patent. US 5841667.A 9 01.DEC-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 14.8%: Score 17.8; DB 6; Length 44;
Best Local Similarity 67.6%: Pred. No. 2e+05;
Natches 25: Conservative 0; Mismatches 12; Indels 0; Gaps
                                                                                                                                                                                                                                           Query Match 21 (184). Score 17.8; DB 6; Length 38; Best Local Similarity 67.6s; Pred. No. 2e-05; Marche 25; Conservative 0; Mismatches 12; Indels 0; Caps
                                                                                                               /organism='Unidentifled'.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-JUN-1998 JP 1999503195
2-JUN 1997 US 60/049410
SHONEI KOIDE
C12M15/12,C07K14/78,C12M15/70,C12N1/21
                                                                                                                                                                                                                                                                                                     Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                             N'C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14 t
                                                                                                                                                                                                                                                                                                                                                                                                      44 bp
Sequence 9 from patent US 5843697.
AR062151.1 GI:5589842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        47 bp. Sequence 5 from Patcht W00206525. AX378216. AX378216.1 GI:19574066
                                                                                                                                                                   /organism-"unknown"
12 c 10 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Ouelifiers
                                                             Strandedness: Single:
Topology: Linear;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unclassified.
                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENSET (FR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   89
89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human.
     7 4 7 5 5 5 7 F F F F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                        Source
                                                                                                                                                                                                                                                                                                                                                                             RESULT 4
AR062151/c
                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AX378216/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ć
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                             linear PAT 01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1inear PAT 31-JAN-2002
                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kolde, S.
Artificial antibody polypeptides
Artificial antibody polypeptides
Patent: WO 2024529-A 23 17-JAN-2002;
Research Corporation Technologies, Inc (US) : Koide. Shohei (US)
Research Corporation Technologies.
                                                                                                                                                                                                                                             O; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0: Gaps
                                                                                                                                                                                                              Query Match

14.8%, Score 17.8; DB 6; Length 3B;
Best Local Stanlarity 67.6%, Pred. NO. 26-05;
Bact Local Stanlarity 67.6%, Pred. NO. 26-05;
Bact Conservative 0: Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 14.8%: Score 17.8; DB 6; Length 38: Local Similarity 67.6%; Pred. No. 2e+05; Thered Spirit 2e+05; Thered D: Mismatches 12: Indels nes 25; Conservative 0; Mismatches 12: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60) 05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        37 TATCCCCACTCCAGAGGGATTCAGGGGTTCCAGGGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="synthetic construct"
/db_xref="taxon:32530"
/note="oligonucleotide FNSR""
8 a 11 c
                                                                                                                                                                                                                                                                                                                                                                             DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Artificial antibody polypeptides
Peten: P 2001500531-A 11 16-3AN-2001.
RESEARCH CORPORATION TECHNOLOGIES INC
OS Unidentified
N JP 2001500531-A/11
PD 16-3AN-2001.
                                     Unclassified.

1 (bases 1 to 38)

1 (bases 1 to 38)

1 antel.p.L. and Tavilgian,S.V.

MMSC2-an MAMC1 interacting protein

Patent: US 6591173-A 35 18-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BD006277 38 bp DNA Artificial antibody polypeptides. BD006277
                                                                                                                                                                   e)
L
                                                                                                                                                                                                                                                                                                                                                                      38 bp
Sequence 23 from Patent W00204523.
AX375334 1 GI:19169998
                                                                                                                                                  /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BD006277,1 GI:18634648
JP 2001500531-A/11.
unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM synthetic construct
ORGANISM synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              , 11 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 unidentified
unclassified.
1 (bases 1 to 38)
Kolde, S.
                                                                                                                                                                   70
70
                                                                                                                                                                   9
                Unknown.
                                   Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match
                                                                                                                                     Source
                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                      JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOURCE
ORGANISM
                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                   BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
BD006277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
   KEYWORDS
                                                                                                                                                                                                                                                                                                                                              RESULT 2
AX375334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMMENT
```

```
PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                          ö
                                                                                                                                                                                                                                                                                                           unidentified.
unidentified
unclassified.
1 (bases 1 to 35)
Sharon, G.
METHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS
Patent: WO 9938298-A 33 03-SEP-1998;
SHARON GIL (IL): GESHER ISRREL ADVANCED BIOTECS (IL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SINGLE STEP ASSEMBLY OF MULTIPLE DNA FRAGMENTS
SINGLE STEP ASSEMBLY OF MULTIPLE DNA FRAGMENTS
PALENT: WO 9838297-A 7 03-SEP-1998;
SHARON GIL (IL); GESHER ISRAEL ADVANCED BIOTECS (IL)
Location/Qualifiers
                                                   Score 17.2; DB 6; Length 35;
Pred. No. 3.2e+05;
0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 14.3%; Score 17.2; DB 6; Length 35; Best Local Similarity 73.3%; Pred. Mo. 3.2e+05; Matches 22; Conservative 0; Mismatches 8; Indels Matches 24; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 14.3%: Score 17.2; DB 6; Length 35; Best Local Similarity 73.3%; Pred. No. 3.2e+05; Matches 22; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                    ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5
t
                                                                                                                     89 TTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   89 ITGGCTTCCATACCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89 TTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1..35
/organism="unidentified"
/db_xref="taxon:32644"
a 4 c 9 9 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31 TTACCTTCCTTAGCTCCTGATTCTCATGTT 2
                                                                                                                                       35 bp
Sequence 33 from Patent WO9838298.
A87123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="unidentified"
/db_xref="taxon:32644"
17 a '4 c 9 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            35 bp
Sequence 7 from Patent WO9838297
A87147
A87147.1 GI:6735919
            6
                                                       Query Match 14.3%;
Best Local Similarity 73.3%;
Matches 22; Conservative (
                                                                                                                                                                                                                                                                                A87123.1 GI:6735895
            Φ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 (bases 1 to 35)
Sharon, G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              unidentified
unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             unclassified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                  RESULT 8
A87123/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 9
A87147/C
                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOURCE
                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q
                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                  PAT 22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Nammala; Eutherta; Primates; Catarrhini; Hominidae; Homo.
1 (basea 1 to 50)
Shimkets, R.A. and Leach, M.
Nucleic exidas containing single nucleotide polymorphisms and methods of use thereof
Patent: WO 018586-A 302 31-MAY-2001:
Curagen Corporation (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. 50
/organism="Homo sapiens"
/db_xref="taxon:9606"
2. 26
/note="Nucleotide deleted between bases 25 and 26
Accession number cg43950850"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ..
O
                                                                                                                                                     ..
0
                                                         /note="99-26413-307 : polymorphic base A or T" 9 a 9 c 11 g 17 t 1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  unidentified.
unidentified
unclassified
unclassified
1 (bases 1 to 35)
Sharon, G.
SINGLE STEP ASSEMBLY OF MULTIPLE DNA FRAGMENTS
SINGLE STEP ASSEMBLY OF STEP-1998;
SHARON GIL (IL); GESHER ISRAEL ADVANCED BIOTECS (IL)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 14.5%; Score 17.4; DB 6; Length 50; Best Local Similarity 68.6%; Pred. No. 208+05; Matches 24; Conservative 0; Wismatches 11; Indels
                                                                                                                         Length 47;
                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                     Query Match 14.7%; Score 17.6; DB 6; Length 4' Best Local Similarity 67.6%; Pred. No. 2.44-05; Matches 23; Conservative 1; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="single nucleotide polymorphism" \mathbf{a} 9 c 10 g 10 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             54 GATTCAGGGGTTCCAGCGTTCCTGAAATGATCGA 88
                                                                                                                                                                                                                                                                                      Sequence 302 from Patent WO0138586.
AX165107
AX165107.1 GT:14545936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22 TAACCCACACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                    DNA
/organism="Homo sapiens"
/db_xref="taxon:9606"
24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        35 bp
Sequence 7 from Patent WO9838299.
A87079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="unidentified"
/db_xref="taxon:32644"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A87079.1 GI:6735851
                                                                                                                                                                                                                                                                                                                                                                                                 Home sapiens
                                                                                                                                                                                                                                                                                                                                                                                 human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     misc_feature
                                            variation
                                                                                                                                                                                                                                                                                                                                                                             SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 7
A87079/C
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOURCE
ORGANISM
                                                                                                                                                                                                                                                                RESULT 6
AX165107/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                       BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
```

ö

```
linear PAT 31-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear PAT 20-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Overy Match 14.3%: Score 17.2; DB 6: Length 37: Rest Local Similarity B6.4%: Prefed No. 124-05: 124-05: Anatches 19: Conservative 0: Mismatches 3: Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14.3%; Score 17.2; DB 6; Length 45;
65.8%; Pred. No. 3.3e+05;
tive 0: Mismatches 13; Indels 0; Gaps
                                                                                                                                                                                                                                                                                             Caps
                                                                                                                                                                                                                                       Query Match 14.3%; Score 17.2; DB 6; Length 37; Best Local Similarity 86.4%; Pred. No. 3.2e-05; Matches 19; Conservative 0; Mismatches 3; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown.
Unclassified.
1 (bases 1 to 45)
Macevicz...S.C.
Macevicz...S.C.
Macevicz...S.C.
Macevicz...S.C.
Macevicz...S.C.
Macevicz...S.C.
Macevicz...S.S.C.
Macevicz...S.S.C.
Macevicz...S.S.C.
Macevicz...S.C.
NETHOD FOR ASSEMBLY OF MULTIPLE DNA FRAGMENTS
PARENT: WO 9818395+A 25 03-SEP-1998;
SHARON GLU (1L): GESHER ISRAEL ADVANCED BIOTECS (1L)
LOGALION/QUAITIFIERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unclassified.

1 (base 1 to 37)
Sharon.G.
Mrthod for assembly of multiple DNA fragments
Patent: US 6372429-A 25 16-APR-2002:
Location/Ovellifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 AGTGACCCTCCTAACCCACACTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AR206369 37 bp DNA
Sequence 25 from patent US 6372429.
AR206369.1 G1:21504956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             _
_
                                                                                                                                                                                                                                                                                                                                                                                         Œ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AR080900 45 bp
Sequence 9 from patent US 5969119.
AR080900 1 GT:1CC07629
                                                                                                                      /organism-"unidentified"
/db_xref-"taxon:32644"
a 3 c 10 g s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89 TTGGCTTCCATAGCTGCTGAAT 110
                                                                                                                                                                                                                                                                                                                                      89 ITGGCITCCATAGCTGCTGAAT 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="unknown"
3 c 28 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism-"unknown"
3 c 10 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
1. .45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32 TAGGTTCCTTAGCTCCTGAAT 11
                                                                                                                                                                                                                                                                                                                                                                    1 Similarity 65.8%
25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S:
Matches 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                    Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 14
AR080900/c
     TITLE
JOURNAL
                                                                                                                                                                      BASE COUNT
CRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 13
AR206369/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11near PAT 20-JUN-2002
                                                                          linear PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8; Indels 0; Gaps
                                                                                                                                                                                     unidentified.
unidentified.
unidentified.
1 (bass 1 to 35)
NETHOD FOR SIULTANEOUS LIGATION OF MULTIPLE DNA FRACHENTS
PATENTED FOR SIULTANEOUS LIGATION OF MULTIPLE DNA FRACHENTS
PATENT (IL). GESHER ISRAEL ADVANCED BIOTECS (IL)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Match 14.3%, Score J7.2; DB 6; Length 35;
Local Similarity 73.3%, Pred. No. 3.2e+05.
les 22; Conservative 0; Mismatches 8; Indels
les 22; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match 14.3%: Score 17.2; DB 6; Length 35: Best Local Similarity 73.3%; Pred. No. 3.2e+05; Matches 22; Conservative 0; Mismatches B; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown.
Unclassified.
1 (bases 1 to 35)
Sharon.G.
Nethod for assembly of multiple DNA fragments
Patent: US 6372429-A 33 16-APR-2002;
                                                        35 bp DNA Sequence 2 from Patent W09838296. A87167.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    89 PTGGCTTCCATAGUTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             35 bp D
Sequence 33 from patent US 6372429.
AR206377
AR206377.1 GI:21504961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                37 bp
Sequence 25 from Patent W09838298.
A87115.
A87115.1 GL:6735887
                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism-"unidentified"
/db_xref-"taxon:32644"
a 4 c 9 9 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   unidentified
unclassified.
1 (bases 1 to 37)
Sharon, G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                   Source
                                                                                                                                                                                                 SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
AR206377/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                          RESULT 10
A87167/c
LOCUS
                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                 VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A87115/c
                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
```

```
unclassified.

1 (bases 1 to 32)
Masahizor, K. yoshiakisa, K. and Kunihizo, S.
Nethod for detecting foreign DNA fragment insert in Vero toxin gene Patent: JP 1999243996-A 9 14-SEP-1999;
Date of LTD
OND CO LTD
OS Unidentified
PN JP 1999243996-A/9
PN JP 1999243996-A/9
PF 27-FEB-1998 JP 1998047677
                                                                                                                                                                                                                                                                                                                 52 bp DNA linear PAT 18-JUN-2001 Method for detecting foreign DNA fragment insert in Vero toxin
                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear PAT 04-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MASAHIRO KUSUMOTO, YOSHIAKI NISHIYA, YOSHIHISA KAWAMURA, PI
                                                                                                                                                                               Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
 1 (bases 1 to 30)
Janjic,N. and Gold,L.
High-affinity RNA ligands for basic fibroblast growth factor
Patent: US 5639688-A 145 17-JUN-1997;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PC C1201/68,C12N15/09//(C12N15/09,C12R1:185).C12N15/00,
(C12N15/00, PC C12R1:185)
CC Strandedness: Both:
CC Topology: Linear;
EFI Key Location/Qualifiers
FT source 1.32
FT Source 1.32
                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                               Score 17: DB 6; Length 30;
Pred. No. 3.7e+05;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match
14.2%; Score 17; DB 6; Length 32;
Best Local Similarity 80.0%; Pred. No. 3.8e+05;
Matches 20; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              37 bp
Sequence 1 from patent US 5750341.
AR006854
AR006854.1 GI:3966338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. 32
/organism="unidentified"
/db_xref="taxon:32644"
9 c 6 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95 TCCATAGCTGCTGAATTGCAGTTTA 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26 ICCGGATTTGCTGAAGTGCAGTTTA 2
                                                                                      /organism-*unknown*
1 2 c 16 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                              Query Match 14.2%; Scc
Best Local Similarity 100.0%; Pr
Matches 17; Conservative 0;
                                                                                                                                                                                                     16 CCCTCCTAACGGAGGC 32
                                                                                                                                                                                                                                                                                                                                                                          E27919.1 GI:13020772
JP 1999243996-A/9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KUNIHIRO SHINAGAWA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown.
                                                                                                                                                                                                                                                                                                                                                   gene.
E27919
                                                                                                                                                                                                                                                                                   RESULT 18
E27919/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
 REFERENCE
AUTHORS
TITLE
                                             JOURNAL
FEATURES
                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 19
AR006854
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMMENT
                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                           ä
                                                                                          PAT 17-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PAT 07-0CT-1997
                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 30)
Janjic,N., Gold,L. and Tasset,D.
Janjic,N., Gold,L. and Tasset,D.
High affinity ligands of basic fibroblast growth factor and thrombin
thrombin
Patent: US 6177557-A 145 23-JAN-2001;
Location/Qualifiers
1. 30
                                                                                                                                                                                                                                                                                                                                                                                           .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                        1 (bases 1 to 45)
Macevicz, S.C.
DNA sequencing by parallel oligonucleotide extensions
Patent: US 6306597-A 9 23-CCT-2001:
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                          Ouery Match 14.3%: Score 17.2; DB 6; Length 45; Best Local Similarity 65.8%; Pred. No. 3.3e+05; Matches 25; Conservative 0; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 30;
                                                                                          linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                      11 AGTGACCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match 14.2%; Score 17; DB 6; Le
Best Local Similarity 100.0%; Pred. No. 3.7e+05;
Matches 17; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30 bp DNA
Sequence 145 from patent US 5639868.
147215.
147215.1 GT:2471180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AR125803 30 bp DNA
Sequence 145 from patent US 6177557.
AR125803.1 GI:14111865
                                                                                                                                                                                                                                                                                                                 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    و
د
                                                                                      AR173730 45 bp
Sequence 9 from patent US 6306597.
AR173730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="unknown"
2 c 16 g
                                                                                                                                                                                                                                                                                                 /organism-"unknown"
1 3 c 28 g
                                                                                                                                  AR173730.1 GI:17914050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 CCCCCTAACCCACACC 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unclassified.
                                                                                                                                                                                            Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unknown.
Unclassified.
                                                                                                                                                              Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 16
AR125803/c
                                                          RESULT 15
AR173730/c
                                                                                        LOCUS
                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 17
147215/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
```

```
linear PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear PAT 18-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear PAT 24-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Coben, D., Blumenfeld, M., Chumakov, I., Abderrahim, H. and Bihain, B.
Obesity associated biallelic marker maps
Patent, MO 0206525-A 145 24-JAN-2002;
GENSET (FR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae: Homo.
                                                                                                                                                                                                                                     EFFRINCE 1 (1958-1 to 31)

AUTHORS Choi. G. H. Kunsch, C.A., Barash, S.C., Dillon, P.J., Dougherty, B., Fannon, M. R., and Rosen, C.A.

TITLE Freptococcus pneumoniae antiqens and vaccines
JOURNAL Patent: US 6159469-A 323 12-DEC-2000:

EAUTHORS Location/Ocalifiers
Source 1.31
                                                                                                                                                                                                                                                                                                                                                                                                                                        7; Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 13.8%; Score 16.6; DB 6; Length 47;
Best Local Similarity 61.0%; Pred. No. 5.4e+05;
Matches 25; Conservative 1; Mismatches 15; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /nole="99.26352-71; polymorphic base A or G" 9 c 11 t 1 others
                                                                                                                                                                                                                                                                                                                                                                                                      14.0%; Score 16.8; DB 6; Length 31; 75.0%; Pred. No. 4.4e-05; Live 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31 bp DNA
Sequence 323 from patent US 6159469.
AR120447.1 G1:14104023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N
N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ANO
O
             S t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       47 bp C Sequence 145 from Patent W00206525. Ax378356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    71 GTICCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organlsm="Homo sapiens"
/db_xref="taxon:9505"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31 GTTCCTGAAGCTGACTGTTTGGGATCCA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33 bp
                                                                                                                                                                                                                                                                                                                                              /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AX378356.1 G1:19574206
                                                                                                                                                                                                                                                                                                                                                                                                                                        21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match
Best Local Similarity
                                                                                                                                                                                                             Unknown.
Unclassitied.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                               10 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AX004493
                                                                                                                                                                                              Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    variation
                                                                                    RESULT 22
AR120447/c
                                                                                                                   LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 23
AX378355/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AX004493
LOCUS
                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCUS
                ò
                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                  linear PAT 31-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear PAT 17-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Caps
                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 37)
Mocevicz.S.C.
DNN sequencing by parallel oligonucleotide extensions
Patent: GS 6306597-A 1 23-037-2002;
Location/Qualifiers
                          1 (bases 1 to 37)
Macevicz.S.C.
DNA sequencing by parallel oligonucleotide extensions
Patent: US 5750341.A 1 12.HXY-1998;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unclassity.

1 (bases 1 to 37)

Macevicz.S.C.

DNA sequencing by parallel olgonuclectide extensions

Patent: US 9869119.A 1 19-0CT-1999;

Location/Oualifiers
                                                                                                                                                                             ch 14.21: Score 17: DB 6: Length 37;
1. Similarity 69.74: Pred. No. 3.8c-05.
Nismatches 10: Indels 13: Conservative 0: Mismatches 10: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query March

14.24: Score 17; DB 6; Length 37:
Best Local Similarity 69.74: Pred. No. 3.8e+05;
Marches 23: Conservative 0; Mismatches 10; Indois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37 bp DNA Sequence 1 from patent US 6306597. AR173722.1 GI:17914042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 14.2%; Score 17; DB 6; Sest Local Similarity 69.7%; Pred. No. 3:8e-95; Matches 13; Conservative 0; Mismatches 10
                                                                                                                                                                                                                                                                                                                                                  NA
D
                                                                                                                                                                                                                                       16 CCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16 CCTCCTAACCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                        2 CTCTCCCTTCCCTCTCCTCTCCCCTCTCC 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 CTCTCCCTTCCTCTCCTCCTCCCCTCTCCC 34
                                                                                                                                  12 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12 L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12 t
                                                                                                                                                                                                                                                                                                                                            AR080892 37 bp 1
Sequence 1 from patent US 5969119.
AR080892 1 GI:10007621
                                                                                                                   /organism="unknown"
0 a 25 c 0 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism-"unknown"
25 c 0 g
                                                                                                                                  6 0
Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6
                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unknown
                                                                                                                                                                               Query Match
Best Local S
                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Source
                                                                     JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
FEATURES
ORGANISM
                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                    ORCANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                             tches
                                                                                                                                                                                                                                                                                                                RESULT 20
AR080892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 21
AR173722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

```
HUMIGHACH Linear PRI 09-NOV-1994 HUMIGHACH Linear PRI 09-NOV-1994 Human Ig rearranged mu-chain mRNA V-region, partial cds (from clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1,07018
1.07018.1 G1:184995
L.776910n; antigen binding region; complementarity determining
region: immunoglobulin heavy chain; mu-immunoglobulin: processed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (sites)
Ichihara,Y., Matsuoka,H. and Kurosawa,Y.
Organization of human lmmunoglobulin heavy chain diversity gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 (bases 1 to 48)
Raaphorst,F.M., Sanz,I., Vossen,J.M., Schuurman,R.K.B. and ven Tol.M.J.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13.7%; Score 16.4; DB 6; Length 42; 50.0%; Pred. No. 6.3e+05; tive 7; Mismatches 13; Indels
                                                                                                                                                                                  Query Match 13.7%: Score 16.4; DB 6; Length 4 Best Local Similarity 50.0%; Pred. No. 6.38+05; Matches 20; Conservative 7; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens 13 week fetus spleen cDNA to mRNA.
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 CCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                                                                      # Unknown.

Unclassified.

L (bases I to 42)

S Bracht, F. and Schror.K.

Cathepsin G-inhibiting aptamers

(AL Patent: US 5780449 A 12 14-JUL-1998;

Location/Qualifiers

4 t
                                                                                                                                                                                                                                                                                                                                                                       DNA
Bracht, F. and Schroer, K.P.
CAREESIN G.INHBITING APTAMERS
PATENT: EP 0775745-A 12 28-MAY-1997;
CRINGS INDUSTRIA FARMACO (IT)
LOCALION/QUALITIES
                                                                                                                                                                                                                                                                                                                                                                  42 bp [
Sequence 12 from patent US 5780449.
ARQ18115.
AR018115.1 GI:3973718
                                                                                      1. .42
/organism="unidentified"
/db_xreff"(to 16 9
6 a 7 c 16 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBO J. 7 (13), 4141-4150 (1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best_Local Similarity 50.0%
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Jnknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HUMIGHACH/C
                                                                                         source
                                                                                                                                                                                                                                                                                                                                    RESULT 27
AR018115/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
   AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
DEFINITION
                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE
PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                                                                                                                                                                     ô
                                                                                                                                                                                                                                                                                     임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 20-0CT-1999
                                                                                                                                                                                                                                                                                                                                                         . ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             synthetic construct
artificial sequences.
1 (bases 1 to 38)
14 (bases 1 to 38)
15 (bases 2 to 38)
16 (bases 3 to 38)
17 (bases 3 to 38)
18 (bases 4 to 38)
18 (bases 4 to 38)
19 (bases 4 to 38)
19 (bases Artiencesellary (be)
19 (bases Artiencesellary (be)
19 (bases Artiencesellary (be)
19 (bases Artiencesellary (be)
                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PAT
                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                              Synthetic construct.

artificial sequences.

1 (base) to 31)

Duffas, R. and Bradley, A.J.

Bovine herpesvirus 2 (bhv-2) based vector and its uses Patent: WO 9916892-A.B 08-APR-1999;

DUFRAS W P H (GB); UNIV BRISTOL (GB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. 38
/organism="synthetic construct"
/db_xref="taxon:37630"
/note="011gonukleotid fuer Tag am C-Terminus"
                                                                                                                                                                                                                                                                                                                                    Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 38;
                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                               Query Match 13.7%; Score 16.4; DB 6; 9
Best Local Similarity 76.9%; Pred. No. 6.2e+05;
Matches 20; Conservative 0; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 13.7%; Score 16.4; DB 6; Best Local Similarity 67.6%; Pred. No. 6.3e+05; Matches 23; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                               /organism-"synthetic construct"
/db_xxef-"taxon:32630"
/note-"oligonuclectide primer"
1 3 c 6 9 5 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 CATAGTGACCCTCCTAACCCACACCTCATTATCC 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42 bp
Sequence 12 from Patent EP0775745.
A79785
A79785.1 GI:6092704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AX078734 38 bp
Sequence 30 from Patent W03107573.
AX078734
 Sequence 18 from Patent WO9916892.
Ax004493
Ax004493.1 GI:9927947
                                                                                                                                                                                                                                                                                                                                                                                                   1 TCGATGCCATAGTGACCCTCCTAACC 26
                                                                                                                                                                                                                                                                                                                                                                                                                   60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AX078734.1 GI:13158358
                                                                   synthetic construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                synthetic construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unclassified.
1 (bases 1 to 42)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unidentified.
unidentified
                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
 DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 26
A79785/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 25
AX078734
LOCUS
                                                                                                                                                  TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
TITLE
                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FATURES
                                                                                                                                                                                                  EATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

ö

Gaps

ö

9 others

PAT 05-DEC-1998

linear

ö

Gaps

ö

Length 42;

```
12 bp DNA linear PAT 07-OCT-1997 150977 1 G:2472680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear PAT 04-FEB-1998
                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                            9; Indels 0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 13.5t; Score 16.2; DB 6; Length 32; Best Local Similarity 70.0t; Pred. No. 7, 73e+05; Matches 21; Conservative 0: Mismatches 9; Indels 0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9: Indels 0: Gaps
                                                                                                                                                                                                           13.5%; Score 16.2; DB 6; Length 32; 76.0%; Pred. No. 7.3e+05; Live 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery March 13.5%. Score 16.2; UB 6; Length 32; Bet Local Similarity 70.0%, Pred. Mc. 7.18+05. Methers Astrones 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                            7 t lothers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 t 1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 t 1 others
Unclassified.

AUTHORS Nishkura,K.
TITLE RNA editions enzyme and methods of use thereof JOHENAL Patent: US 576314-A 33 09-JUN-1998:

Location/Ocalifiers

1. 32
1. 32
1. 32
1. 32
1. 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unclassified.

Dictassified.

(URCS 1 (bases 1 to 32)

AUTHORS Mishikura,K.

TITE NAM editing enzyme and methods of use thereof

JORRAL Patent: US 5643778-A 33 01-10L 1997:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 32)
Mishikura.K.
RNA editing enzyme and methods of use thereof
Patent: US 5674/8-A 33 14-0C7-1997;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12 bp C. Sequence 33 from patent US 5677428. 169440
                                                                                                                                                                                                                                                                              60 CGGGTTCCAGCGTTCCTGAAAATGATCGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60 GGGGTTCCAGCGTTCCTGAAAATGATGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GGGATCCGATCGATCMCGTAATGATCGAT 31
                                                                                                                                                                                                                                                                                                 2 GGGATCGATCGATCNGGGTAATGATGAT 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism-"unknown"
7 c 10 g
                                                                                                                                                                                                             Ouery Match 13.5%
Best Local Similarity 76.0%
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown
                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    scurce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 32
169490
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HASE COUNT
                                                                                                                                                                                                                                                                                                                                                            RESULT 31
150977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KEYWORDS
                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                           40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25 bp DNA linear PAT 10-JUN-1998
186723.1 GT:3206441
                                                                                                                                                                                                                                                  /gene-1GHW*
/gene-1GHW*
/note-*his CDS feature is included to show the translation of the corresponding V_region. Presently translation qualifiers on V_region features are illegal.*
/codon_start-1
/linearized features are illegal.*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear PAT 04-DEC-1998
                          Immunoglobulin heavy chain CDR3 regions in human fetal organs: Evidence for selection of rearrangements on the basis of CDR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 13.7%; Score 16.4; DB 9; Length 4B;
Best Local Similarity 61.9%; Pred. No. 6.4e-05;
Matches 26; Conservative 0; Mismatches 16; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Overy Match
Best Local Similarity 95.74, Precd. No. 7.2e-05,
Matches 18; Conservative 0; Mismatches 3; Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KALISH UNKNOWN.
Unclassified.
FERENCE 1 (bases 1 to 25)
AUTHORS Reed.J.C. and Sato.T.
TITLE Interaction of proteins involved in a cell death pathway
JOGNAL Patent: US 5703897-A 11 30-DEC-1997;
Location/Qualifiers
1. 25 --*..nknown* 7 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26 CCACACCTCATTATCCCCACTCCAGAGGATTCAGGGGTTCC 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             48 CCAGACATCAAAAGCCCCTATCCCCAGCAGCTCAAGAGTTTC 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32 bp DNA
Sequence 33 from patent US 5763174.
AR011884.1 GI:3969874
                                                                                                                            /organism="Homo sapiens"
/db_xre="taxon:9606"
/map="1433.33"
/cell_type="laphocyte"
/tisue_type="spleen"
/dev_stage="13 week fetus"
1.48
                                                                                                                                                                                                                                                                                                                                                                                                          15 t
                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                            /gene="IGHM"
/note="GOO-12G-086"
8 а 8 с 17 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57 TCAGGGTTCCAGCGTTCCTG 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 TCAGCGGTTGAAGCGTTCCTG 25
                                                                                                                                                                                                                                            /gene="IGHM" <1, .>48
                                                             JOURNAL Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknovn.
Unknovn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unknown.
Unknown.
                                                                                                                 Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 29
186723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 30
AR011884
                                                                                                                                                                                                                               gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                              CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                             FEATURES
                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
```

a

ò

ρ

```
0
                                                                                                                                                                                                                                                                                                                            PAT 14-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAT 16-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (bases 1 to 39)
Van Haute, E., Ameloot, P., De Lafonteyne, J. and Flers, W.
Van Haute, E., Ameloot, P., De Lafonteyne, J. and Flers, W.
Venctic manipulations with recombinant DNA comprising sequences derived from RNA virus
Patent: US 6197542-A 12 06-MAR-2001;
                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                  Unclassified.

1 (bases 1 to 39)
Haute, E. Van., Amcloot, P., Lafonteyne, J. De. and Fiers, W.
Genetics manipulations with recombinant DNA virus comprising sequences derived from RNA virus
Patent: US 6093554-A 12 25-JUL-2000;
                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                Length 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
13.5%; Score 16.2; DB 6; Length 39;
Best Local Similarity 95.7%; Pred. No. 7.4e+05;
Matches 18; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 16.2; DB 6; Length 39;
Pred. No. 7.4e+05;
                                                                                                                                                                                              3; Indels
                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                               Query Match 13.5%; Score 16.2; DB 6; Best Local Similarity 85.7%; Pred. No. 7.4e+05; Matches 18; Conservative 0; Mismatches 3;
                                                                      1. .38
/organism="synthetic construct"
/db_xref="taxon.32630"
a 5 c 12 g 8 t
                                                                                                                                                                                                                                                                                                                                   N
O
N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ΔNO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                            39 bp 1 Sequence 12 from patent US 6093554. AR104333 AR104333.1 GI:12817041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     39 bp 1
Sequence 12 from patent US 6197542.
AR137620
                                    Synchess ==
artificial sequences.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers 1.39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="unknown"
                                                                                                                                                                                                                         89 ITGGCTTCCAIAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                89 TTGCCTTCCATAGCTGCTGAA 109
                                                                                                                                                                                                                                          33 TTAGCTTCCTTAGCTCCTGAA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35 TIAGCTICCITAGCTCCIGAA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AR137620.1 GI:14479129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13.5%;
85.7%;
                synthetic construct
synthetic construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                           Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown
               SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                             DEFINITION
ACCESSION
VERSION
                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 37
AR137620/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                    AR104333/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
 KEYWORDS
                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                     RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rocus
                                                                                                                                                                                                                                               ga
                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                      PAT 30-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PAT 05-JAN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 37)
CholiG-H. Kunsch, C.A., Barash, S.C., Dillon, P.J., Dougherty, B.,
Fannon, M.R. and Rosen, C.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Gaps
                                                                                                                                                                                                                                   Ansorge.W.C., Benes.V. and Hill.F.
Vectors for use in transposon-based dna sequencing methods
Patent: WO 0185965-A 7 15-NOV-2001;
EUROPAISCHES. LABORATORIUM FUER MOLEKULARBIOLOGIE (EMBL) (DE)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                        Length 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                     3: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Streptococcus pneumoniae antigens and vaccines
Patent: US 6159469-A 378 12-DEC-2000;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                   Match 13.5%; Score 16.2; DB 6; Local Similarity 85.7%; Pred. No. 7.4e+05; es 18; Conservative 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13.5%; Score 16.2; DB 6; 72.4%; Pred. No. 7.4e+05;
                                                                                                                                                                                                                                                                                                                1. 34
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Primer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AR120502 37 bp DNA
Sequence 378 from patent US 6159469.
AR120502
60 GGGGTTCCAGCGTTCCTGAAATGATCGAT 89
                2 GGGATCCGATCGATCNGGGTAATGATCGAT 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 AGTAAGCTTCCGAACCCATTGT 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 AGTGACCCTCCTAACCCACACCTCATTAT 39
                                                                                                    34 bp
Sequence.7 from Patent WO0185965.
AX300707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           38 bp
A12499
A12499 A12499.1 G1:491369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                89 TIGGCTICCATAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 TIAGCIICCIIAGCICCIGAA 9
                                                                                                                                              AX300707.1 GI:17382010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AR120502.1 GI:14104078
                                                                                                                                                                         synthetic construct.
synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unclassified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                  AX300707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A12499
                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
ACCESSION
VERSION
                                                                      RESULT 33
AX304707/C
LOCUS
DEFINITION
ACCESSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                    Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                    TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A12459/c
                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AR120502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
ò
                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
```

```
AX378360 47 bp DNA Linear PAT 18-MAR-2002 Sequence 149 from Patent W00206525.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear PAT 11-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa: Chordata; Craniata: Vertebrata; Euteleostoml;
Nammalia; Eutheria: Primates: Catarrhini: Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cohen.D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B. Obesity associated biallelic marker maps Perent: W0 0206525-A 149 24-JAN-2002; GENSET (FR)
                                                                                                                                                                                                  MASARU ISHIKAWA, YOSHINORI TANAKA, KOICHI OGINO, TAKAO TAKI PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note="99-28342-137 : polymorphic base A or G" 24 c 2 g 9 t 1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match 13.54: Score 16.2: DB 6: Length 47: Best Local Similarity 64.94: Pered No.7.76e.05: Makerthes 24: Conservative 0: Mismatches 13: Indels
                                                                                                                                                                                                                                                                          /organism='Artificial Sequence'
                                                                                                                                                                                                                                                                                                                                                                                                              Opery Match 13.5%: Score 16.2: DB 6: Length 45: Best Local Similarity 64.5%: Pred No. 7.5e+03. Matches 24. Conservative 0: Mismatches 13: Indels
M synthetic construct
artificial sequences.

1 (bases 1 to 45)
1 Tshikawa M. Tanaka Y. Ogino, K. and Taki, T.
Ceramide-binbing peptide
Patent: JP 200319256-M B 21-NOV-2000;
OTSUAR HARMACEUT CO LID
OS Artificial Sequence
PN JP 2000319296-M/8
PP 10-NAV-2000
PF 10-NAV-2000
PF 10-NAV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                82 TGATCGATTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 ACCACCCTTACCCAGTCTTCCRCCTTCCCACACCTGA 39
                                                                                                                                                                                                                                                Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                 /organism="synthetic construct"
/db_xref="taxon:32630"
6 c 12 g 24 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OKY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 30 from Palent W00162788. AX233387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism-"Homo sapiens"
/db_xref-"taxon:9606"
24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX378360.1 GI:19574210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                    Source
                                                                                                                                                                                                                C07K7/C0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               variation
                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
    ORGANISM
                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CRGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 42
AX233387/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL.
                                                                  TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AX378360
                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                   COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear PAT 20-APR-2002
                                                                                                                                                 linear PAT 17-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear PAT 31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .;
o
    0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match
13.5; Score 16.2; DB 6; Length 45;
Best Local Similarity 64.94; Pred. No. 7.5e+05;
Matches 24; Conservative 0: Mismatches 13; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Gaps
                                                                                                                                                                                                                                              Unknown
Unclassified
1 (bases 1 to 45)
1 (bases 1 to 45)
Hodgson,C.
Wethod of transferring a DNA sequence to a cell in vitro
Patent: US 6287863-A 6 11-SEP-2001:
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery March 13:5% Score 16:2; DB 6; Length 45: Best Local Similarity 72:4%; Pred. Mo. 7.5e+05. Marches 21; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SM Unclassified.

2E 1 (bases 1 to 45)
1RS 7004.A.V. Fuery,C.J. and Cairns,M.J.
2E Catalytic nucleic acid based diagnostic methods
3NAL Patent: US 5051941.A. 71.26-MAR-2002;
Location/Qualifiers
45
7.10the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 t lothers
    3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           55 ATTCAGGGTTCCAGCGTTCCTGAAATGATGATTG 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AR168699 45 bp DNA
Sequence 6 from patent US 6287861.
AR168699 1 GI:17904754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AR201856 45 bp DNA Seguence 71 from patent US 6361941.
AR201856.1 GI:20256395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA
  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17 CCTCCTAACCCACACCTCATTATCCCCAC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          45 bp
                              89 TIGGCTICCATAGCTGCIGAA 109
                                                Ceramide-binbing peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E60008
E60008.1 GI:18622767
JP 2000319296-A/8.
Synthetic construct.
18; Conservative
                                                                                                                                                                                                                                Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E60008
                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 39
AR201856/c
                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
  Matches
                                                                                                                                                           DEFINITION
                                                                                                                                                                           ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 40
E60008
                                                                                                               RESULT 38
AR158699
                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                                              KEYWORDS
                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
```

```
/chromosome-x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Curagen Corporation (US)
                                                                                                                                                                                                                                                                                                                                       2 (bases 1 to 45)
Schaefer, U.
 P-lacW insertion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
               SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 45
AX162258/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                           JOURNAL
 KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Drosophia melanogaster X chromosomal sequences flanking P-lacM AJ426898.1 GI:18478119
                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic Brome mosaic virus (BNV) RNA 3' end/CAT gene from M1965A2, partial cds.
                                                                                                                                                                                                                                                                                                           .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                         Homo saplens
Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Hammaalia; Euteleostomi;
Hoases 1 to 50)
Olaveson,M., Lench,N., Allen,M. and Tazi-Ahnini,R.U.
Corneodesmosin based test and model for inflammatory disease
Patent: WO 1612/2018.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Brome mosaic virus and plasmid pB3CA42 RNA.
synthetic construct.
artificial sequences.
1 (bases 1 to 50)
Brench, R., Janda, M. and Ahlquist, P.G.
Scrench, R., Janda, G. (1986)
Science 231, 1294-1297 (1986)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 13.5%; Score 16.2; DB 12; Length 50; Best Local Similarity 85.7%; Prcd. No. 7.6e+05; Matches 18; Conservative 0; Mismatches 3; Indels (
                                                                                                                                                                                                                                                                                                                                       48 CAGAGGGATTCAGGGGTTCCAGCGTTCCTGAAATGATGATTGGCT 94
                                                                                                                                                                                                                                                                           Query Match 13.5%; Score 16.2; DB 6; Length 59; Best Local Similarity 57.4%; Pred. No. 7.6e+05; Matches 27; Conservative 1; Mismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                        1 others

    .50
    /organism="synthetic construct"
/db_xref="taxon:32630"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /transl_table=11
/protein_1d="aAA72637.1"
/db_xref="G1:554572"
/translation="MSTRFSGAKEAKM"
                                                                                                                                                                                                                                11
t
                                                                                                                                                                                   1. 50
/organism="Homo sapiens"
/db_xref="taxon:9606"
1. 21 c β g 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10. .>50
/note="coat protein"
/codon_start-1
                                                                                                                                                 Oxagen Limited (GB)
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89 TIGGCTICCATAGCIGCAA 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX233387.1 GI:15592721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        M19550.1 GI:209273
                                human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DME426898/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 43
SYNRNA3C/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 44
                                                                                                                                                                    PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

```
Burkert, P., Mourkicti, F., Merner, M., Belnert, N., Dowe, G., Burkert, P., Mourkicti, F., Dentzer, L., Her, Y., Deak, P., Benos, P. V., Gatt, K., Murphy, L., Harris, D., Barrell, B., Ferraz, C., Vidal, S., Brun, C., Denaille, J., Cadieu, E., Dreano, S., Gloux, S., Lelaure, V., Mortier, S., Galibert, F., Borkova, D., Minnah B., Kafatca, F., Bolshakov, S., Sideen-Klamos, I., Papaglannakis, G., Spanos, L., Louis, C., Nadueno, E., de Pahlos, B., Modolell, J., Bucheton, A., Callister, D., Campbell, L., Henderson, N. S., McHillan, P. J., Salles, C., Tait, E., Valenti, P., Saunders, R. D. C., Billaud, A., Pachter, L., Klapper, R., Janning, W., Glover, D. M., Ashburner, M., Ballen, H.J., Jackle, H. and Schæfer, U. Mapping and identification of essential gene functions on the X chromosome of Droscophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo saplens
Eukaryota: Metazoa: Chordata: Craniata; Vertebrata: Euteleostomi;
Mammalia: Eutheria; Primates: Catarrhini: Hominidae: Homo.
1 (bases 1 to 50)
Shimkets, R.A. and Leach, M.
Nucleic acids containing single nucleotide polymorphisms and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Direct Submission
Submitted (03-ppc-2001) Schaefer U., Abt. Molekulare
Submitted (03-ppc-2001) Schaefer U., Abt. Molekulare
Envicklungsbiologie, Max-Planck-Institut fuer biophysikalische
Enfemie, Am Fassberg 11, D-37077, GERHANY
P insertion putatively linked to x chromosomal lethality.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
fruit fly.
Drosophila melanogaster
Drosophila melanogaster
Arbropoda; Hexapoda; Insecta; Pterygota;
Neoptera, Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilldae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 13.3%: Score 16; DB 3; Length 45; Best Local Similarity 62.5%; Pred. No. 8.9e+05; Matches 25; Conservative 0; Mismatches 15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 71 GTTCCTGAAATGATCGATTGGCTTCCATAGCTGCTGAAT 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-*Drosophila melanogaster*
/strain-*1(1)60478*
/db_xref-*taxon:7227*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /map="10C1-2 & 12C-D" /map="1solated by 3' inverse PCR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 5586 from Patent WO0140521.
AX16.2258
AX16.2258.1 GI:14543589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note-"P-lacW insertion site"
12 c 8 g 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      methods of use thereof
Patent: WO 0140521-A 5586 C7-JUN-2001;

    .50
    /organism-"Homo sapiens"
    /db_xref-"taxon:9606"
    .26

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misc_feature
```

```
$3935352 the proprotect of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human adenovirus type 5.

Human adenovirus type 5.

Human adenovirus type 5.

Viruses: dspAw viruses.

(bascs 1 to 44)

Hehtalii, and Legrand.v.

Posterii, wo 9444121 x 20 08-02T-1998;

MEHTALI MAJD (FR): LEGRAND VALERIE (FR)

LOGALIGON/QUALIFIERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear PAT 21-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /strain="ADENOVIRUS 5"
/isolate="OLIGONUCLEOTIDE DE SYNTHESE OTGE (RENPL. G443 EN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GenBank staif at the National Library of Medicine created this entry [NRBI glabse, 108142] from the original journal article. This sequence comes from Fig. 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Viruses: ssRNA negative strand viruses: Mononegavirales:
Paramyxoviridae: pneumovirinae.
1 (bases 1 to 41)
2 (bases 1 to 41)
2 (bases 1 to 6)
2 (bovine respiratory syncytial virus
Virus Res. 24 (1). 115-121 (1592)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12: Indels 0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13.2% Score 15.8; DB 14; Length 41; 65.7% Pred. No. 1e+06; tive 0; Mismatches 12; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .44
/organism="Human adenovirus type 5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       55 ATTCAGGGGTTCCAGCGTTCCTGAAAATGATGGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Pneumovirus"
/strain="A51908"
/db_xref="taxon:11245"
join(S19353:1:22: 41,1..19)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44 bp
Sequence 20 from Patent W09844121.
A84825
A84825.1 GI:6733550
                                        43 CACTCCAGAGGGATTCAGGGGTTCCAG 69
                                                                       28 CACTCCAGAGCGATGAAACGTTTCAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /gene="qlycoprotein P"
10 a 9 r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /db_xref-"taxon:28285"
                                                                                                                                                                                                                                                                                                                                         S39354.1 GI:250936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 65.74
Matches 23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pneumovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                           2 of 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cuery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Source
                                                                                                                                                                             RESULT 48
S39353S2/c
                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     aua6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE
PUBMED
REMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A84825/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ó
                                                                                        名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear PAT 04-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear PAT 28-SEP-2001
                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homen:
Bikaryoda; Metazoa; Chordata; Craniata; vertebrata; Eutelecstomi;
Bikaryoda; Metazoa; Chordata; Craniata; vertebrata; Eutelecstomi;
Anmanila; Euthoria; Primates; Catarrhini; Hominidae; Homo.
Anghanila; Euteland, J.S. and Lander, E.S.
Garqilli, M., Ireland, J.S. and Lander, E.S.
Human single nucleocite polymorphisms
Patent: WO DIGG800-A 259 11-SEP-2001;
PAHTTEREAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
Location/Qualifiers
                                                                                                                   /note="2 of 2 allelic variants (5585 is other entry)" 9 a 12 c 16 9 13 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0: Gaps
                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unclassified.
1 (bases 1 to 33)
2 (bases 1 to 33)
A bang, H and Pomerantz, R.J.
Fathou, H and Pomerantz ransduction efficiency of recombinant retroviral vectors and 100-JUN-1998;
Patent: Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
/note**Nucleotide deleted between bases 25 and 26
Accession number cg44009645*
26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Watch
13.2%, Score 15.8; DB 6; Length 33;
Best Local Similarity 74.1%, Pred. Mo. 1e+06;
Marches 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 13.2%; Score 15.8; DB 6; Length 31; Bast Local Similarity 69.0%; Prof. No. 1c-06. Natches 70; Conservative 1; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 others
                                                                                                                                                                                                                         Query Match 13.3%; Score 16; DB 6; Length 50; Best Local Similarity 62.5%; Pred. No. 9e+05; Matches 25; Conservative 0; Mismatches 15; Indels
                                                                                                                                                                                                                                                                                                                                         B CATAGTGACCCTCCTAACCCACACCTCATTATCCCCCACTC 47
                                                                                                                                                                                                                                                                                                                                                                                            43 CAGAGGACGGCATGTGCCACATGCCATGCCACCACTC 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31 bp DNA
Sequence 259 from Patent WO0166800.
AX248180.
AX248180.1 GT:15862803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33 bp
Sequence 3 from patent US 5763242.
AR012187.1 GI:3970177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27 CACACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29 CACAGCTCCTAAGSCCTCCTAAATGGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo saplens"
/db_xref="taxon:9606"
6 a 4 c 11 9 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown.
Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human.
                                                                                                  misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
DEFINITION
ACCESSION
VERSION
                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 46
AX248180/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AR012187/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
```

```
€
80
                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
                                                                                                                                                                         Unknown
                                                                                                                                                                                        Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unknown
                                                                                                                                                                                                                                                                                                                   sonrce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
FEATURES
                                                                                                            DEFINITION
                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                              RESULT 52
AR005179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
                                                                                                                                                                                                                                                                                TOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 53
AR038389
                                                                                                                                        VERSION
KEYWORDS
                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AR178125
                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                          synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 45)
Ashkenal,A.J., Baker,K.P., Goddard,A., Godowski,P.J., Gurney,A.L.,
Kljavin,I.J., Laflaur,M., Hark,M.R., Marsters,S.A., Pitti,R.M.,
Watanabe,C.K. and Wood,W.I.
Watanabe,C.K. and Wood,W.I.
Fethod of preventing the injury or death of retinal cells and
treating ocular diseases
Patent: WO 010932? A 34 08 FEB-2001;
Genentech, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism-"synthetic construct"
/db_xref-"taxon:33630"
/note-"oligonuclectide used in the isolation of DNA44167."
11 c 15 g 11 t
                                                                                                                                                                       PAT 27-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ô
                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PAT 30-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Streptomyces ambofaciens.
Streptomyces ambofaciens.
Streptomyces ambofaciens
Bacteria: Firmicutes; Actinobacteria: Actinobacteridae:
Actinomycealaes; Streptomycineae; Streptomycetaceae: Streptomyces.
1 (bases 1 to 47)
Grabowski,R. and Berghof,R.
Nuclet. acid molecules for detecting bacteria and phylogenetic units of bacteria
Patent: WO 0123606-A 517 05-APR-2001:
Bjotecon biagnostics GmbH (DE)
Location/Qualifiers
                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;;
Ouery Match 13.2%; Score 15.8; DB 6; Length 44; Best Local Similarity 60.5%; Pred. No. 1e+06; Matches 26; Conservative 0; Mismatches 17; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 13.2%; Score 15.8; DB 6; Length 47; Best Local Similarity 65.7%; Pred. No. 1.1e+06; Matches 23; Conservative 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ch 13.2%; Score 15.8; DB 6; Length 45; I Similarity 74.1%; Pred. No. 11e-06; 20; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                            /organism="Streptomyces ambofactons"
/db_xref="taxon:1889"
9 c 15 g 14 t
                                                                                                                                                                       ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AX107698 47 bp C
Sequence 517 from Patent W00123606.
AX107698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                45 bp
Sequence 34 from Patent WO0109327.
AX080788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29 CACCTCATTATCCCCACTCCAGAGGGA 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCCACATACTCCACAGCCCAGAGGGA 2
                                                                                                                                                                                                                    AX080788.1 GI:13169762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AX107698.1 GI:13923183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 20
                                                                                                                                    RESULT 50
AX080788/c
LOCUS
                                                                                                                                                                                 DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 51
AX107698
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                       PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EATURES
                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

46 TCCAGAGGGATTCAGGGGTTCCAGCGTTCCTGAAA 80

```
linear PAT 04-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 29-SEP-1999
                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 18-DEC-2001
                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unclassified.
1 (bases 1 to 27)
Frankel,A., Pabo,C., Barsoum,J.G., Fawell,S.E. and
Pepfinsky,R. Blake
Tat-derived transport polypeptides and fusion proteins
Patent: US 5504664-A 36 08-SEP-1998;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 13.0%; Score 15.6; DB 6; Length 27; Best Local Similarity 81.8%; Pred. No. 1.2e+06; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                 Query Match 13.0%; Score 15.6; DB 6; Length 27; Best Local Similarity 81.8%; Pred. No. 1.2e+06; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                                               Unclassified.

1 (bases 1 to 27)
Frankel,A., Pabo,C., Barsoum,J.G., Favell,S.E. and peninsky, Ralake.
Tat-derived transport polypeptide conjugates
Patent: US 5747641-A 36 05 MAY-1998:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
   NO
NA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ONA
                                                                                                                                                                                                                                                                   4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4
AR005179 27 bp (
AR015179 1 GI:3966058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27 bp
Sequence 36 from patent US 5804604.
AR038389
AR038389.1 GI:5957106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27 bp 1
Sequence 36 from patent US 6316003.
AR178125
                                                                                                                                                                                                                                               /organism="unknown"
                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism-"unknown"
8 c 7 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                   6 GAAGCCAIGGIGACICICCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AR178125.1 GI:17921018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
SOURCE
```

```
27 bp DNA linear PAT 04-EEB-1998
Sequence 36 from patent US 5674980.
168230
168230.1 GI:2830352
                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear PAT 08-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unclassified.

1 (bases 1 to 31)

Levinson, D. Adam.

Compositions and methods for the treatment and diagnosis of immune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear PAT 17-DEC-2001
Obery Match
13.0%; Score 15.5; DB 6; Length 27;
Best Local Similarity 81.8%; Pred. No. 1.2e+06;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4: Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9: Indels 0: Gaps
                                                                                                                                                                                                                                                                                                           DREANLER UNCLESSIFIED.

UNCLESSIFIED.

Unclessified.

Unclessified.

AUTHORS Frankel.A. Pabo.C. Harsoum, J.G., Fawell, S.E. and Popinsky R. Blake.

TITLE Pusion protein comprising tar-derived transport molety JOURNAL Patent. US 5674980-A 36 07-007-1997.

LOCALION/QUALIFIERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oubry Match 13.0%, Score 15.6; DB 6; Length 27; Best Local Similarity 81.8%; Pred. No. 1.2e+06.8 Marches 18; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery March
13.0%. Score 15.6; DB 6; Length 31;
Best Local Similarity 70.0%; Pred. No. 1.2e+06.
Marches 21; Conservative 0; Mismatches 9; Indels
Marches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AR143573 3. bp DNA
Sequence 29 from patent US 6204371.
AR143573.1 GT:15104859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS AR168942 31 bp DNA DEFINITION Sequence 29 from patent US 6298218.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6
t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ب
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31 CCACCCCAGGACGATTACTGGTACCGGG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism-"unknown"
5 a 8 c 12 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism-"unknown"
8 a 8 c 7 g
                                                               3 GAIGCCATAGTGACCCTCCTAA 24
| | | | | | | | | | | | | | | | |
6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 GATGCCATAGTGAGCGTGGTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
                                                                                                                                                                                                                                                                                   Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown
                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 58
AR143573/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 59
AR168942/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                    VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                            RESULT 57
                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
                                                                        ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                            linear PAT 07-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear PAT 29-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10.0535110.7)
Frankell, A., Pabo. C., Barsoum, J.G., Fawell, S.E. and
Peplasky, R. Blabe.
Nucleic acids encoding and methods of making tat derived transport
polypeptides
Patent: US 5551122-A 36 29-JUL-1997;
1...77
1...77
1...77
                                                                                                                                                                                                            Owery Watch
13.0%; Score 15.6; DB 6; Length 27;
Best Local Similarity 81.6%; Preci No. 12c+06;
Marches 18; Conservative 0; Mismatches 4; Indeis 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   I (bases I to 27)
Frankel.A., Pabo.C., Barsoum, J.G., Favell, S.E. and
Peptinsky. R.Blake.
Publish and conjugates of tat-derived transport polypeptides
Patent: US 5670617-A 36 23-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 13.0%: Score 15.6; DB 6: Length 27: Best Local Similarity 81.8%; Pred. No. 1.2e+06; Matches 18; Conservative 0; Mismatches 4; Indels
             1 (bases 1 to 27)
Frankel.A., Pabb.C., Barsoum.J.G., Fawell,S.E. and
Peplinsky.R.Blake.
7at-derived transport polypoptides
Patent: US 6316003-A 36 13-NOV-2001;
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 36 from patent US 5652122.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27 bp DNA
Sequence 36 from patent US 5670617.
166583.
166583.1 GI:2724560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4
                                                                                                       Location/Qualiflers
                                                                                                                                        /organism-*unknown*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="unknown"
8 a 8 c 7 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="unknown"
8 a 8 c 7 g
                                                                                                                                                                                                                                                                                   3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                    6 GAAGCCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 GATGCCATAGTGACCCTCCTAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 GAAGCATGGTGACTCTCCCAA 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                            IS8465.1 GI:2477703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unknown.
Unclassified.
  Unclassified.
                                                                                                                                                          60
60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown
                                                                                                                         Bource
                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                    TITLE
JOURNAL
                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 56
166583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
                                                                                                                                                                                                                                                                                                                                                                         RESULT 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
```

Caps

```
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mamalia; Dutheria; Primates; Catarrhini; Hominidae; Homo. 1] (bases 24 to 44) Roman-Roman, S., Ferradini, L., Azocar, J., Genevee, C., Hercend, T. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Triebel, F. Studies on the human T cell receptor alpha/beta variable region Studies on Identification of 7 additional V alpha subfamilies and 14 Jalpha gene segments.
                                                                                                                                                                                                                                                                                                                                                                            PAT 14-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRI 09-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Verheije,M.H. and Meulenberg,J.J.
Chimeric arterivurus-like particles
Partent: WO 0190363-A 24 29-NOV-2001;
ID-Lelystad, Instituut voor Dierhouderij en Diergezondheid
                         HISASHI YASUE
CIZNIS/09,CO7K14/32,CIZNI/Z1,CIZPZ1/02,CIZNIS/00 CC
Kev
Location/Qualifiers
                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                       ce 1. 38
/organism-'Artificial Sequence'
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13.0%; Score 15.6; DB 6; Length 42; 70.0%; Pred. No. 1.2e+06; tive 0; Mismatches 9; Indels
                                                                                                                                                                                                             Length 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H. Sapiens of MTCP-1 gene MTCP-1 gene. 224456 Z24456. GI:406859 MTCP-1 gene. T cell receptor; translocation. Homo sapiens. Homo sapiens.
                                                                                                                                                                                                        Query Match
13.0%; Score 15.6; DB 6;
Best Local Similarity 70.0%; Pred. No. 1.2e+06;
Matches 21; Conservative 0; Mismatches 9;
                                                                                                                   1, .38
/organism="synthetic construct"
/db_xref="taxon.31630"
9 c 10 g 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1. .42
/organism="synthetic construct"
/db_xref="taxon:12630"
/note="prime: PRRSV59"
a 14 c 6 g 10 t
                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 GGGTTCCAGCGTTCCTGAAATGATCGATT 90
                                                                                                                                                                                                                                                                                     AX316133 42 bp
Sequence 24 from Patent W00190363.
AX316133
AX316133.1 GT:17899324
 02-SEP-1998 JP 1998248297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                    synthetic construct.
synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 13.00
Best Local Similarity 70.00
Matches 21: Conservative
                                                                           sonr.ce
   FE SE FE
                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                BASE COUNT
                                                                                                                                                                                                                                                                                                                                            RESULT 62
AX316133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 63
HSMTCP1C
                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                      linear PAT 17-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E33230 38 bp DNA linear PAT 31-JAN-2002 Novel methanol dehydrogenase activity promoter and gene thereof. E33230
                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
0
                                                                       Unclassified.
1 (bases 1 to 31)
Levinson, D. Adam.
Compositions and methods for the treatment and diagnosis of Immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel methanol dehydrogenase activity promoter and gene thereof Patent: JP 2000069976-A 5 GT-MAR-2000;
AJINOMOTO CO INC
OS Artificial Sequence
PN JP 2000069976-A/5
PD 07-MAR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                   0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 38)
Yasueda, H.
Activator for methanol dehydrogenase and gene thereof
Patent: US 6280972-A 6 28-AUG-2001;
                                                                                                                                                                                                                                                       Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 38;
                                                                                                                                                                                                                                             13.0%; Score 15.6; DB 6; Length 3' 70.0%; Pred. No. 1.2e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ch 13.0%; Score 15.6; DB 6; Length 3 I Similarity 70.0%; Pred. No. 1.2e+06. 1 I Statistics 1 Similarity No. Nismatches 9; Indels 21; Conservative 0; Mismatches 9; Indels 20
                                                                                                                                                                                                                                                                                                                                                                                                                       DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 t
                                                                                                                                               Patent: US 6288218-A 29 11-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             42 CCACTCCAGAGGGATTCAGGGGTTCCAGCG 71
                                                                                                                                                                                                                                                                                                                             AR166165 38 bp
Sequence 6 from patent US 6280972.
AR166165 GI:16241345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
1. 38
/organism="unknown"
a 9 c 10 9
                                                                                                                                                                       1.31
/organism="unknown"
                                                                                                                                                                Location/Qualiflers
 AR168942.1 GI:17905137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 38)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   E33230.1 GI:18624024
                                                                                                                                                                                                                                                     Query Match 13.0 Best Local Similarity 70.0 Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JP 2000069976-A/S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown.
Unclassified.
                                                                                                                                                                                                           ν
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown.
                                           Unknown.
                                                            Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yasue, H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 21
                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE,
ORGANISM
                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                         RESULT 60
AR166165/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ACCESSION
VERSION
KEYWORDS
                                                                                     REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 61
E33230/c
                                                                                                                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
```

ò g ö

Gaps

ò a

```
linear PAT 08-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear PAT 16-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear PAT 05-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                        Unknown:
Unchassified.
Unchassified.
Chases 1 to 46)
Carfinker,L. and Nuchter,T.
Hethods of using human von Willebrand factor GPID binding domain polypetrides
Patent: US 608193-A 13 28-DEC-1999;
Location/Qualifiers
1. 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oubry Match 13.0%; Score 15.6; DB 6; Length 46; Best Local Similarity 70.0%; Pred. No. 1.24*06. Advantage 21; Conservative 6; Nishatches 9; Indels 0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unclassified.
1 (bases 1 to 47)
Reymond.C.K. recombination
Plasmid construction by homologous recombination
paren: US 6207442.A 12 37.4MR-2001:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 CTAACCCACACCTCATTATCCCCACTCCAGGGGATTC 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10 CTAAGCGICACCCCGGGATCGCCACTGIGTTGGAATIC 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    48 bp DNA Sequence 34 from patent US 5792456. AR022070.1 GT:3976132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12 t
                    44 ACTCCAGAGGATTCAGGCGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              42 ACTATAGAATGAACCCGGGGTCCCAGCTTT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AR140184 47 bp C
Sequence 12 from patent US 6207442.
AR140184
                                                                                                                            AR096675 46 bp 1
Squence 13 from patent US 6008193.
AR096675.1 GI:10025665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism-"unknown"
15 c 13 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AR140184.1 GI:14482680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
                                                                                                                                                                                                         Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match
                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Source
                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                           DEFINITION
                                                                                                                                                                                                                      ORGANISM
                                                                                                  RESULT 65
AR096675/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 66
AR140184
                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 67
AR022070
LOCUS
                                                                                                                                                            ACCESSION
VERSION
XEYWORDS
                                                                                                                                                                                                                                                                    AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                               q
                                                                                                                                         3 (bases 1 to 44)
Steen, H., Soullet, J., Rosenzwajg, M., Nakahara, K., Canki-Klain, N.,
Aurias, A., Siguar, F. and Kirsch, I.R.
MTCP-I. a novel gene on the human chromosome Xq28 translocated to
the T cell receptor alpha/delta locus in mature T cell
proliferations (9), 2475-2483 (1993)
                                                                               Direct Submission
Submitted (05-UU-1993) Marc-Henri Stern, Laboratoire d'Hematologie
Noleculaire, Mopital Saint-Louis, 2, place du Docteur Fournier,
Paris, 78479, France
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear PAT 08-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (bases 1 to 45)
Garfinkell. and Richter.T.
Methods of using human von Willebrand factor GP1b binding domain
polypeptides
Patent: US 6008193-A 15 28-DEC-1999;
Location/Qualifiters
1. 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                /organism-Homo sapiens"
/isolate='patient bol.
/ido.xref='taxon:9606'
/map='tix:14)(28:q11.2)*
/cell_type='clonal T-cell lymphoproliferation"
/complement(1..20)
/gene='MICP-1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 13.04; Score 15.6; DR 6: Length 45; Best Local Similarity 70.01; Pred No. 1.2+064. Mulches 21; Conservative 0: Hismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 13.0%; Score 15.6; DB 9; tength 44; Best Local Similarity 70.0%; Pred. Mo. 1.24*06.09; Hatches 21; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            45 bp 2NA
Seguence 15 from patent US 6006193.
AR096677.1 GI:10025688
Eur. J. Immunol. 21 (4), 927-933 (1991)
91209401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ۍ
۲
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40 CCCCACTCCAGAGGATTCAGGGGTTCCAG 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /label-Dol-breakpoint
                                                                                                                                                                                                                                                                                                                                                                                                               /gene="MTCP-1"
/jabel-exla
20^24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism-"unknown"
14 c 11 g
                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21. .23
/label=N-diversity
24. .>44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /citation=[1]
/label-JHAP50
a 14 c
                                               2 (bases 1 to 44)
Stern, M.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown.
                                                                                                                                                                                                                                                                    8361760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                  Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 64
AR096677/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                      MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
                                                                                                                                           REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                    JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                          aeue
                                                                                                                                                                                                                                                                                                                                                                                                                       exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                JOURNAL
                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ó
```

Gaps

ö

PAT 21-JAN-2000

```
Polypeptidic compositions and methods for the treatment of tumors Patent: WO 0105836-A 30 25-JAN-2001; Genentech, Inc. (03)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 50)
Botstein,D., Goddard,A., Gurney,A.L., Hillan,K.J., Roy,M.A. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 13.0%; Score 15.6; DB 6; Length 49; Best Local Similarity 81.8%; Pred. No. 1.2e+06; Matches 18; Conservative 0; Mismatches 4; Indels
       Length 48:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 13.0%; Score 15.6; DB 6; Length 50; Best Local Similarity 81.8%; Pred. No. 1.3e+06; Matches 18; Conservative 0; Mismatches 4; Indels
                                                                  23 AACCCACACCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCCA 68
                                                                                      1 PACCCANTACATGTAATAGTCACTGAAAGTGAATCCAGAGGTTACA 46
     Query Match 13.0%; Score 15.6; DB 6: Length 4 Best Local Similarity 58.7%; Pred. No. 1.2e+06; Matches 27; Conservative 0; Mismatches 19; Indels
                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1...50
/organism="synthetic construct"
/db_xref="taxon:12630"
/note="Synthetic Olgonucleotide Probe"
a 16 c 11 g 15 t
                                                                                                                                                                                                                                                                                                       1 (bases 1 to 49)
Tawfik, D. and Griffiths, A.
IN VITRO SORTING METHOD
PALENT: NO 9902671-A 5 21-JAN-1999;
MEDICAL RES COUNCIL (GB): TAWFIK DAN (GB)
LOCATION/QUALIFIER DAN (GB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  10 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 30 from Patent WO0105836.
AX076918
AX076918.1 GI:13121574

    .49
    /organism-"unidentified"

                                                                                                                                                                              49 bp
Sequence 5 from Patent WO9902671
                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:32644"
14 c 10 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30 ACCTCATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13 ACCTTATTACCGCCGCTCCAGA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CGATCGGATGCCACAGCTGCTG 8
                                                                                                                                                                                                            A81628
A81628.1 GI:6731789
                                                                                                                                                                                                                                                         unidentified
unidentified
unclassified
                                                                                                                                                                                                                                                           SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 71
AX076918/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
                                                                                                                                                RESULT 70
A81628
                                                                                                                                                                                                                                                                                                                           AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOURCE
                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                       PAT 16-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 01-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                             synthetic construct.
synthetic construct
synthetic construct
artificial sequences.
1 (bases 1 to 48)
Tawfik.D. and Griffiths,A.
Optical sorting method
Patent: WO 0040712- A 12 13-JUL-2000;
Patent: WO 0040712- A 12 13-JUL-2000;
Location/Qualifiers
                                                                                                                                                                                                                             Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                            ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
Unclassified.
Unclassified.
I (bases 1 to 48)
Yelton,0., Glaser,S., Huse,W. and Rosok,M.Joanne.
Nutant BR96 antibodies reactive with human carcinomas
Patent: US 5792456-A 34 11.AUG-1998:
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chases 1 to 48)
Yelton, D., Glaser, S., Huse, W. and Rosok, M. Joanne.
Nutant BR96 antibodies reactive with human carcinomas
Patent: US 5728821-A 34 17-MAR-1998;
Location/Qualifiers
                                                                                                                                                                                            Length 48:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 48;
                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                         23 MACCACACCTCATTATCCCACTCCAGAGGGATTCAGGGGTTCCA 68
                                                                                                                                                                                            Ouery Match 13.0%; Score 15.6; DB 6; Length 4 Best Local Similarity 58.7%; Pred. No. 1.2e+06; Matches 27; Conservative 0; Mismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 13.0%; Score 15.6; DB 5; Best Local Similarity 81.8%; Pred. No. 1.2e+06; Matches 18; Conservative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="synthetic construct"
/db_xxef="taxon:32630"
/note="01!gonuclectide Primer"
14 c 9 g 10 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                        ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         48 bp 1
Sequence 34 from patent US 5728821.
192860.
192860.1 GI:3937330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10
                                                                                                                                                                                                                                                                                                                                                                     AX026768 48 bp
Sequence 12 from Patent WO0040712.
AX026768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30 ACCICATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                    AX026768.1 GI:10187907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unclassified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
ACCESSION
VERSION
                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Source
                                   REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                       LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
JOURNAL
                                                                                                                                                BASE COUNT
ORIGIN
        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 69
192860
                                                                                                                                                                                                                                                                                                                                         RESULT 68
AX026768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                             ò
```

ö

Gaps

ö

PAT 22-FEB-2001

ö

Gaps

```
ö
                                               linear PAT 01-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear PAT 29-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear PAT 16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hukerji,P., Das,T., Huang,Y.S., Parker-Barnes,J.M., Leonard,A.E., Thurmond,J. and Pereira.s. Let. Elongase quencs and uses thereof Parent: Wo 0208401-A 94 31-JAN-2002; Abbort Laboratories (US)
                                                                                                                                                                                                                                                                 Badur, R., Geiger, M., Kunzc, I., and Sommer, S.
Changing the fine clemical content in organisms by genetically.
modifying the Shik Imate pathway
Patent: WO 0200901-A 10 03-IAN-2002;
Sungene GmbH & Co. KgAM (DE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.8%; Score 15.4; DB 6; Length 30; 76.0%; Pred. No. 1.4e+06; arive 6; Mismatches 6; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cch 12.84; Store 15.4; DB 6; Length 37; Lisinlarity 66.74; Pred. No. 1.4e-06; 14e-06; 25; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism-"synthetic construct"
/db_xref-"taxon:32630"
/note-"primer"
1, 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="synthetic construct"
/db_xref="taxon:32630"
/note-"primer RO514"
a 8 C 7 9 12 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX464823 17 bp DNA
Sequence 94 from Patent WO0208401.
AX464823.1 G1:21859524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNO
O
                                               AX343940 30 bp DNA Sequence 10 from Patent W00200501. AX43340. AX343940.1 GI:18491979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 51 AGGGATTCAGGGGTTCCAGCGTTCCTGAAATG 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S ATGGATCCATGATTCACTCGTTACTCAATATG 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 39 bp D Sequence 55 from patent US 5871974. AR036028 GI:5952636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 CCATAGTGACCCTCCTAACCCACAC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30 CCATAATAAACCTCTTAAGCCACCC 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 9
                                                                                                                                                                         synthetic construct.
synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    synthetic construct.
synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 76.0%
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 22; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer_bind
BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
DEFINITION
ACCESSION
VERSION
                                                                     DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                 source
RESULT 74
AX343940/c
                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 76
AR036028
                                                                                                                                                                                                                                                                              AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 75
AX464823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
                                                                                                                                                   KEYWCRDS
                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                     linear PAT 02-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota: Metazoa: Chordata: Cranlata: Vertebrata: Euteleostomi: Mammalla: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus. 1 (bases 1 to 50)

Rolink, A., Masner, D., Nishikawa, S. and Melchers, F. Changes In frequencies of clonable pre B cells during life in different lymphoid organs of mice Blood Blood in (1993)
                                                                                                                                                                                                                                                                 Fong, S., Gerritsen, M. E., Goddard, A., Gurney, A.L., Hillan, K.J., Williams, P. M. and Wood, M. I. Williams, P. M. and Wood, M. I. Premotton or Linhlitition of anglogenesis and cardiovascularization Patent: MO 0119987. A 5.22-MR-2001; Genentech, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  General staff at the National Library of Medicine created this entry [NBI glabsq 131034] from the original journal article. This sequence comes from Table 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 13.0%; Score 15.6; DB 10; Length 59; Best Local Similarity 63.2%; Pred. No. 1.3e+06; Matches 24; Conservative 0; Mismatches 14; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match 13.0%, Score 15.6; DB 6; Length 50: Best Local Similarity B1.8%; Pred. No. 1.3e+06. Watches 18: Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="synthetic construct"
/db_xref="taxon:32530"
/db_xref="taxon:32500"
/db_xref="tax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 50 bp DNA Sequence 5 from Patent W00119987. AXO98266.1 GI:13537572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14 g 17 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 .50
/organism-"Mus sp."
/db_xref-"taxon:10095"
1 .50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      86 CGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29 ÇGATCĞĞATGCACAĞÇIĞCTĞ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus sp. blood pre-B cells.
Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /gene="IgH DJ"
                                                                                                                                                                      synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 50)
                                                                        DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
RESULT 72
AX098266/c
LOCUS
                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 73
S60243/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
MEDLINE
PUBMED
REMARK
                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aeue
                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
                                                                                                                                                                                                                                                                                                                                                                                                        FEATORES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
```

q

```
linear PAT 06-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear PAT 07-SEP-2000
                                                                                                                                                                                                                                                             synthetic construct.

artificial sequences.

1 (bases 1 to 39)

Goller, S., Klein, D., Guenzburg, W. and Salmons, B.

Targered integration into chromosomes using retroviral vectors paten: wo 0001815 - A 14.13-AN-2000;

GOLLER SABINE (AT): KERN DIEFFE (AT): SALMONS RIAN (CD): BAVARIAN NORDIC RES INST AS (DK)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unidentified
unclassified.
10 (bases I to 39)
Werck-Reichhart.D., Durst.F., Schalk.M. and Batard.Y.
Recoding dna sequences for expression in yeast and transformed
Pasts obclaned
Patent: EP 0911404 A 6 28 APR-1999;
RHONE POULCEX GRECKHHIE (FR)
Query Match 12.8%; Score 15.4; DB 6; Length 39;
Best Local Similarity 66.7%; Pred. No. 1.4e+06;
Matches 22; Conservative 0; Mismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12.8%; Score 15.4; DB 6; Length 39; 66.7%; Pred. No. 1.4e+06; tive 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 12.8%: Score 15.4; DB 6; Length 39; Best Local Similarity 66.7%; Pred. No. 1.4e+06; Matches 22: Conservative 0; Mismatches 11; Indels

    39
/organism-"synthetic construct"
/db_xrefe" taxon:32630"

                                                                80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88 ATTGGCTTCCATAGCTGCTGAATTGCAGTTTAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68 AGCGTTCCTGAAATGATCGATTGGCTTCCATA 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                    V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 AGAATTCCAGTIAAGCCTCGAGTGCCTTGCAGA 38
                                                                                    5 AAATACCTATTGCCTACGGCAGCCGCTGGATTG 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 t
                                                                                                                                                                                  AX006840 39 bp
Sequence 14 from Patent WO0001835.
AX006840 GI:9994856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39 bp
Sequence 6 from Patent EP0911404.
AX023062
AX023062.1 GI:10046530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .39
/organism="unidentified"
/db_xref="taxon:32644"
a B c 9 g 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 5
                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note-"primer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 12.84
Best Local Similarity 66.70
Matches 22; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                т
О
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                  DEFINITION
                                                                                                                                                     RESULT 79
AX006840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT BO
AX023C62
                                                                                                                                                                                                                                                                                                                                   AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                   VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear PAT 17-OCT-2001
                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                      linear PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                       Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unknown.
Unknown.
1 (bassified.
1 (basse 1 to 39)
Batard,Y., Durst,F., Schalk,M. and Werck-Reichhart,D.
Recoding of DMA sequences permitting expression in yeast and
botained transformed yeast
Patent: US 6180363-A 6 30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                     ö
                                 ORGANISM Unknown.
Unclassified.
Unclassified.
1 (bases 1 to 39)
AUTHORS Huse, W.D.
TITLE Surface expression libraries of heteromeric receptors
JOURNAL Patent: US 5871974-A 55 16-PEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 12.8%; Score 15.4; DB 6; Length 39; I.Similarity 66.7%; Proch No. 1.44+06.

1 Similarity 66.7%; Proch No. 1.44+06.

1 Similarity 67. Wishatches II; Indels 72; Conservative 0; Hishatches II; Indels
                                                                                                                                                                                                                                     DB 6; Length 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Surface expression libraries of randomized peptides Patent: US 625810-A 27 10-JUL-2001; Location/Qualifiers
                                                                                                                                                                                                                                                                     11; Indels
                                                                                                                                                                                                                                 12.8%; Score 15.4; DB 6; 66.7%; Pred. No. 1.4e+06; tive 0; Mismatches 11
                                                                                                                                                                                                                                                                                                    80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68 ACCGTTCCTGAAATGATCGATTGGCTTCCATA 100
                                                                                                                                                                                                                                                                                                                      1 1 1 1 1111 11 1 111 1111 1111 1111 5 AAATACCTATTGCCTACGCCAGCCGCTGGATTG 37
                                                                                                                                                                                                                                                                                                                                                                                                                  AR126771 19 bp DNA Sequence 6 from patent US 6180363. AR126771.1 GT:14113364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 AGAATTCCAGTTAAGCCTCGAGTGGCTTGCAGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 t
                                                                                                                                                                                      11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     39 bp C
Sequence 27 from patent US 6258530.
ARI61825
ARI61825.1 GI:16228792
                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="unknowe"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="unknown"
                                                                                                                                                                  /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unclassified.
1 (bases 1 to 39)
Huse, W.D.
                                                                                                                                                                                                                                                                   22; Conservative
                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 22; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 22; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10 8
                                                                                                                                                                                    10 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unknown.
                   Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JODRNAL
                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                     RESULT 77
AR126771
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
TITLE
                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AR161825
                                                                                                                                       FEATURES
                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           å
```

ö

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear PAT 17-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear PAT 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12.8%, Score 15.4; DB 6; Length 42;
61.0%; Pred, No. 1.5e+06;
Live 0; Mismatches 16; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 12.8%; Score 15.4; DB 6; Length 42; Best Local Similarity 65.7%; Pred. No. 1.5e+06. Marches 22; Conservative 0; Mismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                           Query March 12.8%; Score 15.4; DB 6; Length 42; Best Local Similarity 66.7%; Pred. No. 1.5e+06; Marches 22; Conservative 0; Mismatches 11; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         58 CAGGGCTTCCAGCGTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 CAGTGGTACCACGGCCAGGTAGATGGTCAGTTGGCCAGCA 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases i to 42)
Kunsch.C.A., Chopira,A and Rosen,C.A.
Human B.cell translocation genee:2 and 3
Petent: US 625977 A # 10-JUL 2001;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 42)
Lumma, W.C. Ur, Smith, A.M. and Sisko, J.T.
Lumba, W.C. Oli, Smith, A.M. and Sisko, J.T.
Inhibitors of prenyl protein Lransferase
Patent: US 6315344-A 5 01-3AN-2002;
Location/Qualifiers
TITLE Inhibitors of prenyl-protein transferase JOURNAL Patent: US 6172076.4 $ 09-JAN-2001:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA
                                                                                                                                                                                                                                                                                       44 ACTCCAGAGGGATTCAGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ₹NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44 ACTCCAGAGGATTCAGGGGTTCCAGGGTTCCT 76
                                                                                                                                                                                                                                                                                                                  6 AGTCTAGAGTTAACCCCTGGTCCCCCCCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 C
                                                                                                                      11 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 5 from patent US 6335343.
AFIBEB08.1 GI:20224022
                                                                                                                                                                                                                                                                                                                                                                                                                                                 42 bp
Sequence B from patent US 6258777
AR162656
AR1626611 G:16229952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="unknown"
7 a
                                               Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="unknown"
li c l5 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12 9
                                                                                         /organism-"unknown"
12 c 12 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 61.0%
Matches 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Inclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unclassified.
                                                                                                                   7 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Source
                                                                                                                   BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT BS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AR181808
                                                                                                                                                                                                                                                                                                                                                                                                                                   AR162658
                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                           ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear PAT 10-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                    linear PAT 20-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
12.81; Score 15.4; DB 6; Length 39;
Best Local Similarity 66.74; Pred. No. 1.48+06;
Matches 22; Conservative 0; Mismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unknown to the control of the contro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12.8%, Score 15.4; DB 6; Length 39; Best Local Similarity 66.7%; Pred. No. 1.4e-06. Heatches 12; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown.
Unclassified.
1 (bases 1 to 42)
Embrey,M.W., WaliJ.S., Perlow,D.S. and Hoffman,J.W.
                                                                                                                                                                               unidentified.

Munidentified.

Unclassified.

E I (base I to 39)

S Werk, R. D. Duret, F. Schalk, M. and Batard, Y.

Dua for expression in yeasts

L Patent: FR 7568746 A 6 56-MAR-1999;

RHONE POULENC AGROCHINE (FR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       42 bp DNA
Sequence 5 from patent US 6172076.
AR124699
AR124699.1 GI:14110060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   185766 39 bp DNA Sequence 55 from patent US 5698426. 185706 185706.1 GI:3205424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   68 AGCGTTCCTGAAATGATCGATTGGCTTCCATA 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  80 AATGATCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 AGAATTCCAGTTAAGCCTCGAGTGGCTTGCAGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ]]
[
                                                           39 bp
Sequence 6 from Patent FR2768748.
AX031107.1 GI:10278475
                                                                                                                                                                                                                                                                                                                                                                                                                          /organism-"unidentified"
/db_xref-"taxon:32644"
a 8 c 9 9 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                         DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 82
185706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL.
                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 83
                       RESULT 81
                                            AX031107
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AR124699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      õ
```

```
linear PAT 31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear PAT 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHARLES A KUNSCH, ARVIND CHOPRA, CRAIG A ROSEN
CO7H21/04, C12P21/02, C12P21/08, C07K15/00, C07K14/475, A61K38/00
Strandedness: Single:
Topology: Linear:
Ney
Location/Ouelifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12.8%: Score 15.4; DB 6; Length 42; 66.7%; Pred. No. 1.5e+06; tive 0; Mismatches 11; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                   O: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unitassified.

BERRWE I (Dases) to 42)
AUTHORS Authory.M.J. Bell,I.M., Beshore,D.C., Ciccarone,T.M., de solms,S.Jane., Dinsmore,C.J. and Stokker,G.E.
Inhibitors of premyl-protein transferase
JOWNAL PRIENT: US 6358983-A 6 19-MAR-2002.
                                                                                                                                                                                                                                            Query Match 12.8%, Score 15.4; DB 6; Length 42; Best Local Similarity 66.7%; Pred. Mo. 1.5e+06. Mo. Maharings 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unided the August of Augus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42 bp DNA Hunan B-cell translocation genes-2 and 3. BD)05929
TITLE Inibitors of prenyl protein transferase JOHNEL PA:ent: US 6358956-A 519-MAR-2002; FEAUDRE PA:ent: US 6358956-A 519-MAR-2002; Source 1. .42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PNO
                                                                                                                                                                                                                                                                                                                                             44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 NGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                  11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS

AR 201362

AR 201362

DEFINITION Sequence 6 from patent US 6138985.
ACCESSION AR 201362

VERSION AR 201362.1 GI: 20252250

SEXTWONDES

CONGANISM UNINOWN.
                                                                                                                              /organism="unknown"
7 a 12 c 12 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="unknown"
7 a 12 c 12 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BD)05929.1 GI:18634300
JP 2001501464-A/6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 12.8%
Best Local Similarity 66.7%
Matches 22: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                  BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 89
AR201362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BD005929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMMENT
                                                                                                                                                                                        CRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                     đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear PAT 20-APR-2002
                                                                                                                 linear PAT 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear PAT 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 (bases 1 to 42)
Lumma N.C., Sisko, J.T., Smith, A.M., Tucker, T.J., Dinsmore, C.J. and Bergman, J.M.
Inhibitors of prenyl-protein transferase
Patent: US 635643-A 5 12-MRR-2002;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unclassified.
Unclassified.
1 (bases 1 to 42)
Hartman,G.D., Lumma,W.C. Jr., Sisko,J.T., Smith,A.M., Tucker,T.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 12.8%; Score 15.4; DB 6; Length 42; Best Local Similarity 66.7%; Pred. No. 1.5e+06; Matches 22; Conservative 0; Mismatches 11; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 12.8%: Score 15.4; DB 6; Length 42: Best Local Similarity 6.7%; Pred. Mo. 1.54+06.1 Marches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                      Unknown.

Unclassified.

El (bases 1 to 42)

RS deSolms.S.Jane and Shbw,A.W.

Inhibitors of prenyl.protein transferase

Inhibitors of prenyl.protein transferase

NAL Patent: US 6150755-A 6 26-FEB-2002;

Location/Qualifiers

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VNC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44 ACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 AGTCTAGAGTTAACCCGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  44 ACTCCAGAGGATICAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 AGTCTAGAGTTAACCGGTGGTCCCCGCGTTGCT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AR199990 42 bp ... Squence 5 from patent US 6355643. AR199990 GI:20250064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AR201343 42 bp
Sequence 5 from patent US 6358956.
AR201343. GI:2025231
                                                                                                              AR195274 42 bp
Sequence 6 from patent US 6350755.
AR195274.1 GT:20244711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-"unknown"
7 a 12 c 12 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
                                                                                                                                                                                                                                               Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Daknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Source
                                                                                                                 LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 87
AR199990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AR201343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
```

```
linear PAT 01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear PAT 31-JAN-2002
                                                                                                                                              Koide,S.
Artificial antibody polypeptides
Artificial antibody polypeptides
Patent: WO 0204523-A 24 17-JAN-2002;
Patent: WO Corporation Technologies. Inc (US) : Roide, Shohel (US)
Cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                        0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'Match 12.8%; Score 15.4; DB 6; Length 44; Local Smilarity 66.7%; Pred. No. 1 5e-06. In Indels les 22; Conservative 0; Mismatches 11: Indels les 22; Conservative 1.
                                                                                                                                                                                                                                                                                                                                                       Ouery Match 12.8%: Score 15.4; DB 6; Length 44; Best Local Smilarity 66.7%; Pred. Wo. 1.5e-06; Marches 22; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism-'Unidentified'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-JAN-2001
12-JUN-1998 JP 1999503195
12-JUN-1997 US 60/049410
SHOHEL KOLDE
CLANS/ALZ-COFK14/78,CL2N15/70,CL2N1/21
Strandedness: Sinyle;
Topology: Linear:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism-*synthetic construct*
/db_xref-*taxon:32630*
/note-*Oisponucleotide gene3F.*
12 c 11 g 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
    CNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ONA
                                                                                                                                                                                                                                                                                                                                                                                                                         52 GGGATTCAGGGGTTCCAGGGTTCCTGAAATGA 84
                                                                                                                                                                                                                                                                                                                                                                                                                                          2 GGGATCCACGCGTCCATTCCTTTGTGAATATCA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52 GGGATTCAGGGGTTCCAGGGTTCCTGAAAATGA 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 GGGATCCACGCGTCCATTCGTTTGTGAATATCA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 t
AX375335 44 bp
Sequence 24 from Patent WO0204523.
8x375335.1 GI:19155959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Artificial antibody polypeptides. BD006278.1 GT:18634649 UP-201190631-A/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism-"unidentified"
/db_xref-"taxon:32644"
a 12 c 11 g 11
                                                                                synthetic construct.
synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 44)
Koide, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unidentified unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                 ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Loca
Natches
              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 93
BD006278
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE CCUNT
                                                                                                                                                                                      JOURNAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                     EATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  D
D
                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                    AGRN1 43 bp DNA linear INV 06-JUL-2002 Anopheles gambiae 28S rDNA fragment containing 5'end of insertion sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Paskevitz,S.M. and Collins,F.H.
Site-specific ribosomal DNA. Fiscartion elements in Anopheles gambiae
and A. arabtenis: nucleotide segrence of gene-element boundaries
Nucleic Acids Res. 17 (20), 8125-8133 (1983)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Direct Submission
Submitted (12-MAY-1989) Paskevitz S.M., Centres for Disease
Control, Malaria Branch Fl2, CID/CDC, Atlanta Georgia 30333, U S A
Location/Qualiffers
                                                                                                                                                                                                                                                                                                                                                                                                       X15305.1 GI:S601
28S ribosomal RNA; insertion sequence: ribosomal DNA: ribosomal
                                                                                                                                                    Ouery Match
12.8%; Score 15.4; DB 6; Length 42;
Best Local Similarity 61.0%; Pred, No. 1.5e+06;
Matches 25; Conservative 0; Mismatches 16; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                        African melaria mosquito.
Monopheles gamblae
Eukaryota, Metarba, Arthropoda: Hexapoda: Insecta: Pterygota;
Neoptera: Endopterygota: Diptera; Nematocera: Culicoidea:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 12.8%, Score 15:4; DB 3: Length 43: Best Local Stinlarity 61.0%, Pred No. 1.5e+06. Hol. Harches 25; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /insertion_seq="insertion sequence 5'end"
a 11 c 12 g 10 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30 ACCTCATATCCCCACTCCAGAGGGATTCAGGGGTTCCAGC 70
                                                                                                                                                                                                                   58 CAGGGGTTCCAGCGTTCCTGAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                       /organism='Unidentified'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                42 ACCTCAGGTTTGACACTACACAGGATAACTGGCTTGTGGC 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Anopheles gamblac"
/strain="G3"
/db_xref="taxon:7165"
/choncoone="Chromosone X"
/clone="lambda Agr78H4.5, 5'end"
/dev_stage="adult"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7. .23
/note-*target site duplication*
24. .>43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /product-"28S ribosomal RNA"
                                                                                                     ) t
                                               1. 42
/organism-"unidentified"
/db_xref="taxon:32644"
11 c 15 g
    1. . 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 (bases 1 to 43)
Paskewitz,S.M.
    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Anopheles.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Control,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                misc_feature
    EE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                      LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOURCE
ORGANISM
                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                       RESULT 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear PAT 16-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear PAT 07-0CT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cendida albicans.
Cendida albicans
Eukaryota, Fungi. Ascomycota, Saccharomycotina: Saccharomycetes;
Saccharomycetales; mitosporic Saccharomycetales; Candida.
                                                                                                                                                                                                                            Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 50)
Janjic,N. and Gold,L.
High-affinity RNA Ligands for basic fibroblast growth factor
Petent: US 639868-A 184 17-JUN-1997:
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rcemer,T., Jiang,B., Boone,C., Bussey,M. and Ohlsen,K.L. Gene disruption methodologies for drug target discovery Petent: WO 02051728-A 4575 11.5UL-2002; Elitra Pharmaceuticals, Inc. (US)
                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                  Query Match 12.8%: Score 15.4; DB 6; Length 50; Best Local Similarity 94.1%: Pred. No. 1.5e+06; Matches 1f; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 12.84: Score 15.4; DB 6: Length 50: Best Local Similarity 94.1%; Pred. No. 1.5e+06. Matches 1; Matches 1; Indels Matches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 12.7%: Score 15.2; DB 6; Length 20; Best Local Similarity 85.0%; Pred. No. 1.6e+06; Matches 17; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 184 from patent US 5639868.
147254
147254.1 GI:2471219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA487275 20 bp DNA Sequence 4575 from Patent WO02053728. AA487275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Candida albicans"
/db_xref="taxon:5476"
10 c 1 g 6 t
JOURNAL Pt Lent: US 5639868-A 146 17-JUN-1997;
ATURES LOCALICO/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10 t
                                                                    /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="unknown"
9 c 19 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27 CACACCTCATTATCCCCACT 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AX487275.1 G1:22321423
                                                                                                                                                                                                                                                                      16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                   47 CCCTCCTTACCCACACC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 CCCTCCTAACCCACACC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         47 CCTCCTTACCCACACC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ur known.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 98
AX487275
                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 97
I47254/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAT 16-MAY-2001
                                                linear PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear PAT 07-0CT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unclassified.
1 (bass 1 to 50)
Janjic, N. and Gold, L.
High-affinity RNA ligands for basic fibroblast growth factor
                                                                                                                                                                                                                                             1 (bases 1 to 50)
Janjuc.M., Gold.L. and Tasset,D.
Janjua affinity ligands of basic fibroblast growth factor and
this matter ligands of basic fibroblast growth factor and
thrombin
Patent: 146 23-3AN-2301;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       i (bases 1 to 50)
Janilc. N. Gold.L. and Tasset, D.
High affinity ligands of basic fibroblast growth factor and thrombin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 12.84: Score 15.4; DB 6: Length 50; Best Local Similarity 94.14: Pred. No. 1.5+66. No. 15-646. WHENCHES 16: CONSERVATIVE 0: Mismatches 1: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 12.8%; Score 15.4; DB 6; Length 50; Best Local Similarity 94.1%; Pred. No. 1.5e+06; Matches 16; Conservative 0; Mismatches 1; Indels Matches 16; Onservative 0; Mismatches 16; Onservative 16; Onservative 16; Onservative 17; Onservative 17; Onservative 17; Onservative 17; Onservative 17; Onservative 18; Ons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        147216 50 bp DNA
Sequence 146 from patent US 5639868.
147216.1 GI:2471181
                                                AR125804 50 bp DNA
Sequence 146 from patent US 6177557.
AR125804 1 GI:1411866
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AR125842 50 bp DNA Sequence 184 from patent US 6177557. AR125842 AR125842.1 GI:14111904.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent: US 6177557-A 184 23-JAN-2001;
Location/Qualiflers
1. 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10 t
                                                                                                                                                                                                                                                                                                                                                                                                                     /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-"unknown"
. 9 c 19 g
                                                                                                                                                                                                                                                                                                                                                                                                                                               19 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unclassified.
                                                                                                                                                                                                  Unknown.
Unclassified.
                                                                                                                                                                           Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 95
AR125842/c
LOCUS
DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
RESULT 94
AR125804/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 96
147216/c
LOCUS
                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
```

ç 8

```
Search completed: June 17, 2003, 21:33:33 Job time : 1015 secs
24 TINGCTICCTINGCTCCTCA 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear PAT 22-JAN-2000
                                                                                                                                                                                                                 linear PAT 31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TETSUJI YAMADA,YUKI ICHINOSE,TOMOKO FUJIMARA,HIDENORI OZAMA PC CIZNIS/09,CIZNIS/00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Watch 12.71; Score 15.2; DB 5; Length 20; Best Local Statlarity 85.0%; Pred No. 1.6+76; Park Local Statlarity 81.0%; Pred No. 1.6+76; Onservative 7; Hishaltches 3; Indeis 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match

12.75; Score 15.2; DB 6; Length 28;
Best Local Similarity 85.01; Pred: No. 1.72-06;
Watches 17; Conservative 0; Hismatches 3; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Appendit JP 2000245463-A 6 12-SEP-2000;
Defent: JP 2000245463-A 6 12-SEP-2000;
TSTSUJI TAMADA, JAPAN TOBACCO INC, TAKASAGO INTERNATIONAL CORPORA JP 2000245463-A/6
PP JP 2000245463-A/6
PP 12-SEP-2000
PP 26-PP-2099 JP 19999050789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  unidentified.

Sw unidentified.

unclassified.

E 1 (bases 1 to 28)

S Sharon, C STEP ASSEMBLY OF NULTIPLE DNA FRAGMENTS

SINCLE STEP ASSEMBLY OF NULTIPLE DNA FRAGMENTS

AL PREENT: WO 9838297-A 15 03-5EP-1998:

SHARON GIL (IL): GESHER ISRAEL ADVANCED BIOTECS (IL)

LOCALION QUalifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism-'Artificial Sequence'
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                 E38263. GI:18626961
E38263. GI:18626961
Dy 2000245463-4x6.
Synthetic construct.
Synthetic construct.
Synthetic sequences.
1 (bases 1 to 20)
Dy 2000245463-4x6.
Dy 2000245463-4x6.
Dy 20002463-4x6.
Dy 20002463-4x6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A87155 28 bp DNA
Sequence 15 from Patent W09838297.
A87155.1 GI:6735927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1. .20
/organism-*synthetic construct*
/db_xref="taxon:32630" 7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                      DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90 TESCTICCATAGCTCCTGAN 109 1 1 11111 11111 11111 11111 1 1 TASCTICCTTAGCTCCTGAN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-"unidentified"
/db_xref-"taxon:32644"
11 a 4 c 8 9 5
                                                                                                                                                                                                                      20 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  89 TTGGCTTCCATAGCTGCTGA 108
1 CCCCCTCATTATCCCCATT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 100
A87155/C
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                    RESULT 99
E38269
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMMENT
```

A2796334 2M0052101 AU103929 AU103929 A2960044 2M0227M23 A2466654 TM026601	A2769247 1M0569P10	B1761448 603044269 A2853008 240155817 A1492250 L55803.x A2500971 140339811	A1199940 qi66f09.x A2767497 1M0566008 A2768968 1M0569P09 A1928097 wpllall.x	BH740835 KG04938-5 AL486316 T. brucel T61673 yb87904.sl	A2621474 1M0454008 A2806715 2M0068019	A2626127 1M0466007 A2782425 2M0022F14	AZ514366 1M0361D02 AZ591306 1M0401P17 AU103234 AU103234	A2597958 1H0412J23 A2776846 2H0010A20 AZ44099 1H023ZC2 AZ776609 2H0010Z20	R29249 F1-367D 22 A1917385 ts83h12.x W73879 zd68h10.s1	AMS07256 EST00684 AMS07292 EST00720	AZ456166 1M0258820 AA904249 0e74902.s	AZ403273 1M0171G12	AL758605 Arabidops AA826579 0e66910.s	AMUSABAI HUTH.DSST AL656975 AL656975	AA976736 0906110.s	AU106947 AU106947 AU107595 AU107595	AU107687 AU107687 AZ307590 1M0009N10	AA908637 og86f07.s A2636460 1H0495H14	AZ380286 1M0136E12 AZ659063 1M0536M10	A2309443 1M0013011	A2579592 WP61011.X A2579592 1403660000	BH849286 SALK_0694	AU102397 AU102397 AU102413 AU102413 AU103901 AU103902	A2954606 2M0220B22 AA238160 mx16d10.r	AZ637132 1M0496A13	AAY8/550 OFYZEUS.B AT356755 GY22f06.x	BH890364 3526_1_13 AZ442808 1H0237N08	AZ623464 1M0461F15 AA928990 co27e03.s	A1185244 qe31804.s AU104948 AU104948 AU106265 AU106265 AU106343 AU106343
A2796334 AU103929 A2960044 A2460654	B1914625 A2769247	BI761448 AZ853008 AI492250 AZ500971	AI198940 A2767497 A2768968 A1928097	BH740835 TA294A10Q T61673	AZB06715	A2626127 A2782425	A2514366 A2591306 AU103234	A2597958 A2776846 A2440999 A2776609	R29249 A1917385 W73879	AW507292 AW507292	A2456166 AA904249	A2.403273	AL758605 AA826579	AL656975	AA975736	AU106947 AU107595	AU107687 AZ307590	AA908637 A2636460	A2380286 A7659063	A2309443	A2579592 A2579592	BH849286	AU102397 AU102413 AU103901	AZ954606 AA238160	A2637132	AA987350 A1356755	BH890364 A2442808	A2623464 AA928990	A1185244 AU106948 AU106265 AU106343
								50 17 34 17 35 17 45 17																					
4044	, m m	m 44 44 W ≥	~ ~ ~ ~	~ * *	ro ro	m m ·	an m	vn m →	<b>-</b>		v <del>4</del> ∙	. 4	44.	, ,	• •	മഹ	v. v.	~ m	mm	7 -	• • •	P 47 1	un un	~ •	* *	, ~ .	₩ ₩	4 4	4 N. N. N.
14.2 14.2 14.0 14.0	13.7	13.7. 13.7.	13.5 13.5 13.5 13.5	13.3	13.3 13.3	13.2	13.0	13.0 12.8 12.8 12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.5	12.5	12.5	12.5	12.5	22.22.25.25.25.25.25.25.25.25.25.25.25.2	12.3 12.3	12.3	12.3	12.3 12.3	12.3	12.3
17 17 16.8	16.4	16.2	16.2 16.2 16.2	9 9 9	16 16	55.8 58.8	15.6 15.6	15.6 15.4 15.4	15.4	15.4	15.4	15.2	15.2	15.2	15.2	15.2	15.2	15	15	125	12.5	223	5 5 5	14.8	8.4	9 80 6	9 8	8.4	8 8 8 8
		0 14 13 0 14 0 15 0 15 0 15 0 15 0 15 0 15 0 15			c 25			0 0		) U U								C 55					0 0 40 0 40 0 40 0					C 74	
1.6 mpugen Ltd.		h time 1368 Seconds hout alignments) .657 Million cell updatcs/sec	gctgctgaattgcagtttag 120			102772																	ted by chance to have a of the result being printed,	e distribution.			Description	BH621582 1007114E0 AI025674 ov86q02.s	AU103646 AU103646 AU361939 agy49b08.x AU104247 AU104247 AL761984 Arabldops
GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compu	nucleic search, using sw model	June 17, 2003, 21:13:50 ; Search t. (without 1420.65)	US-09-676-436-3_COPY_3264_3383 120 1 tcgatgccatagtgacctc9c	IDENTITY_NUC Gapop 10.0 , Gapext 1.0	16154066 seqs, 8097743376 residues	Total number of hits satisfying chosen parameters:	th: 8 th: 50	Post-processing: Minimum Hatch 0% Maximum Hatch 100% Listing first 200 summaries	::* em_estba:* em_estbum:*	en_estin: * en_estmu: *	em_estpl:	ea_btc:*	90_est1:" qb_est2:* qb_btc.*	95_165; 95_est3:* 95_est4:*	gb_est5: •		en_gss.hum:		em_gss_vrt:• em_gss_fun:•				Pred. No. is the number of results predicted score greater than or equal to the score of	d by analysis of the total score	SUMMARIES	Ouery	<b>ີ</b> : .	46 17	15.0 50 9 AU105646 14.3 69 9 AT361993 14.3 50 9 AU104247 14.3 50 17 AL761984
'n	£3	a																											
ďo	ucleic	June			1615	of hits	l leng	ng: Mir Man Lis	EST:	i m <b>→</b> i				12:	*	16:		20:	22:	23:	25:	2.	o. is eater	der i vec	-		- ;	15.3	
ďо	ON nucleic - nucleic	June	Titla: US-( Perfect score: 120 Sequence: 1 to	Scoring table: IDEN Gapo	Searched: 1615	umber of hits	Minimum DB seq length: 8	ocessing: Mir Max Lis	Database: EST	 i m 🕶 i	 				***	16:	18:	19: 20:	21:	23:	2.52		Pred. No. is score greater	id is derive	•	Score Oues	- ;	19.6	

AA907869 ok79e12.s AA907869 ok79e12.s AA146493 ok730d01.x AA476027 vh26c07.r AA4768953 lM05c9H1 AL627930 AL627930 AU102456 AU102456 AU102453 AU102253 AU102953 AU102253 AU102953 AU102253 AU102953 AU102953 AU103938 AU103938	AU1064251 AU1064251 AU106898 AU106948 AU106946 AU106946 AU107601 AU106946 AU107601 AU107601 AU107684 AU107602 AU107684 AU107602 AU107684 AU107602 AU107684 AU107602	AZ76435 2M0048R17 AZ76435 2M0048R13 AZ834964 2M0117L23 AZ835637 1M0065K16 AZ84439 2M0143H23 AZ65604 1M0465D16 AZ78458 2M027G15 AZ78458 2M027G15 AZ989635 2M0273K06 AZ596007 1M0346P19	BH129371 G-55B.f H AA878861 of84109.5 BH641736 1008049.5 BH641736 1008049.5 A267316 1M0278B08 A268058 24002412A12 A1540852 LP68405.x A2681283 2400341.6 A26405 M05951.6 A2769085 1M056902 A276508 1M056902 A276648 2M052612 A162609 ar87h08.x A2665383 1M054313 BH88809 SALK 6077 A2420561 1M0198021	DNA linear GSS 30-JAN-2002 Grid H Zea mays genomic, DNA	Jea mays  Elkaryota: Viridiplantae: Streptophyta; Embryophyta; Tracheophyta; Spermatophyta: Magnoliophyta; Liliopsida: Poales; Poaceae: PACC clade: Panicoideae: Andropogoneae: Zea. clade: Panicoideae: Andropogoneae: Zea. d. (bases 1 to 46) Malbot, V. Malca genomic sequences found using engineered RescueMu transposon Unpublished (2001) Contact: Walbot V Department of Biological Sciences Stanford University
49 9 AA907869 49 9 AA907869 49 9 AA176027 49 10 AA476027 50 9 AU102456 50 9 AU102456 50 9 AU10253 50 9 AU10253 50 9 AU103938 50 9 AU103938	00000000000000000000000000000000000000	29 17 AZ768325 29 17 A2834954 29 17 A2834958 33 17 A2834979 34 17 AZ759611 34 17 AZ759611 37 17 AZ769515 38 17 AZ76007		ALIGNMENTS 46 bp 1EL_x1 1007 - Rescuemu G	Sea mays  Lea mays  Lea mays  Lea mays  Lea mays  Lea  Lea  Lea  Lea  Lea  Lea  Lea  Le
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11.7 7.111 7.111 7.111 7.111 7.111	**************************************	ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽ઌઌઌઌઌ 	BH621582 N 1007114E09 sequence 4 BH621582 BH621582.1 GSS.	ស្គ •
		0 175 0 177 0 178 0 178 0 180 0 181 0 183	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RESULT 1 BH621582 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE	ORGANISM  REFERENCE AUTHORS TITLE JOURNAL COMMENT
AL771100 Arabidops A2459577 M0264G19 N75693 yw52401.r1 A2650740 1M0521N05 A3151416 qq47001.x A2428033 1M0210P17 A2581263 1M0369N16 C21077 HUMGS000259 AU108029 AU108029 A2416047 1M191E11	016 oszédlo:s 016 oszédlo:s 4085 1M0203805 4085 1M0203805 240 or30h05:s 7868 1008096A0 7858 1M0203023 991 Homo sapi	49 mw08006.r 49 cos6e07.s 39 c01062593 43 qx48f02.x 43 qx48f02.x 55 300295308 414 2M010523 6 MUSGS00496	AZ31719 A 10035112 AU105376 AU105349 AU106349 AU107641 AU107641 AU107641 D19573 HUSGS00978 AI051365 ow25110.X AI051365 ow25110.X AZ46286 IMOETGF12 H AZ46286 IMOETGF12 H AZ46286 AU10269112 AZ4447 IMOZ20016 AZ793475 AU0966118 BH689237 3525_1_3 AZ44327 IMOZ368E01 AZ512933 IMOSG81180 BH689237 3525_1_37 AZ44427 AM0Z368180 AZ512933 IMOSG81180 AZ512933 IMOSG81180	AZ557309 100048F21 AZ646970 100513D15 AU103596 AU103596 AU103896 AU103806 AZ965976 AU108006 AZ965976 Z00236114 AZ75599 Z000236114 AZ775599 Z0008168 AZ775599 Z0008168 AZ775599 Z0008168 AZ877046 Z000692604 AL480724 T. bruce1	AAAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
4424H44UDD44	AA866 AA996 AA939 AA939 AA979 AA979 AA979 AA979	A12190 A10008 BE356 A12500 A10940 A10940 B1252 A22943	AZ3171 AU106537 AU106537 AU106537 AU106136 AZ4628 AZ4628 AZ4628 AZ7524 AZ7524 AZ7524 AZ7524 AZ7524 AZ7524 AZ7524 AZ7528 AZ7528 AZ7528 AZ7528 AZ7528 AZ7528 AZ7528	AZ507309 10034662 AZ565970 1003361 AU103597 AU103597 AU103597 AU103597 AU108006 AU108006 AZ55976 AU108006 AZ55976 AU108006 AZ5797835 AU00810 AZ797835 AU00810 AZ797835 AU00810 AZ807046 AU00810 AZ807046 AU00810	AA/U26/1 Z BA/U26/1 Z BH849821 BH857011 BH857012 BH857012 AJ239774 A AA866671 A A1323615 BF007302 A2916197
17 AL771100 17 AZ45957 14 AZ5977 17 AZ50740 17 AZ58124 17 AZ58126 17 AZ58126 14 CZ1077 9 AU1002946 9 AU1002946 17 AZ416047	9 AA85987 9 AA956016 17 A224085 17 A2291808 9 AA973240 17 BH797868 17 A2423755 2 HSM007841	9 AL67929 9 AA211049 9 AX000894 10 BESS6392 9 A1050043 9 A105403 13 B1222353 17 A2628414 14 D18780	48 17 A2317194 AZ3171 50 9 AU106346 AU10534 50 9 AU10641 AU10764 32 14 D19573 D19573 34 9 AU51365 AU5136 37 14 A262636 AZ6236 39 17 AZ62636 AZ6234 40 17 AZ793475 AZ7524 40 17 AZ793475 AZ7524 41 10 AZ793475 AZ7934 42 17 BH689237 BH6892 45 17 AZ512933 AZ5129 46 17 AZ512933 BH88989	17 A2507309 17 A2646970 9 AU103596 9 AU103597 17 A265976 17 A26715 17 A2775509 17 A2775509 17 A2220014 17 A2220014	9 AA70201 14 D67708 14 D67708 17 BH857011 17 BH857012 9 AJ239774 9 AA860671 9 A132615 12 BF007302 17 AZ916197
2 37 17 AL771100 2 38 11 AZ42957 2 39 14 N75693 2 49 17 AZ650740 2 45 17 AZ42803 2 46 17 AZ42803 2 49 14 CZ1077 2 50 9 AJ102946 3 49 AZ416047 6 AZ416047	12.0 34 9 AA09087 12.0 34 9 AA09087 12.0 39 17 A292808 12.0 40 9 AA973340 12.0 40 17 B479868 12.0 41 17 AA243755 12.0 43 2 HS4007841 12.0 43 2 AA011345	12.0 43 9 AA231049 12.0 44 9 A1000894 12.0 44 10 BE535592 12.0 45 9 A250043 12.0 46 9 A1094098 12.0 46 13 B125353 12.0 46 17 A2828414 12.0 47 14 D18780 12.0 47 17 A284553	7 A2317194 9 AU105376 9 AU10549 14 D15754 14 D1573 17 AZ46Z65 17 AZ46Z65 17 AZ46Z65 17 AZ46Z65 17 AZ46Z65 17 AZ46Z65 17 AZ46Z61 17 AZ43Z65 17 AZE33O1 17 AZE33O1 17 AZE33O1 17 AZE33O1 17 AZE33O1 17 AZE33O1 17 AZE33O1 17 AZE33O1 17 AZE33O1	11.8 48 17 AZ507303 11.8 48 17 AZ56570 11.8 50 9 AU103596 11.8 50 9 AU103596 11.7 23 17 AZ265976 11.7 31 19 AZ265976 11.7 31 17 AZ265976 11.7 31 17 AZ775509 11.7 32 17 AZ775509 11.7 32 17 AZ775509 11.7 32 17 AZ775501 11.7 32 17 AZ775501 11.7 32 17 AZ775501	11.7 41 17 MAN 4287.1 11.7 42 14 D6708 11.7 42 14 D6708 11.7 42 17 BH857011 11.7 42 17 BH857012 11.7 44 9 AJ239774 11.7 46 9 AA860671 11.7 46 9 AI323615 11.7 46 12 BF007302 11.7 46 12 BF007302

```
/Crganism-Homo sapiens'
/Organism-Homo sapiens'
/OLOINE-TIMECE:164420'
/CLOINE-TIMECE:164420'
/CLOINE-TIMECE:164610'
/CLOINE-TIMECE:16461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Department of Virology institute of Medical Science, University of Tokyo institute of Medical Science, University of Tokyo 4-6-1, Shirokanodal, Minatoku, Tokyo 108-8639, Japan Email: ysuzukiajms.urtokyo.ac.jp Suzuki., Voshiromorakagawa, K., Maruyama, K., Suyama, A. and Sugano S. Constituttion and characterization of a full length-enriched and a strend enriched cDAN library, Gene 200 (1-2), 149-156 (1997). Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AU103646 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone HEP06267, mRMA sequence.
AU103646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo saplens

Bikaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
Bikaryota: Metazoa: Chordata: Cararhini: Hominidae: Homo.

(Dasas 1 to 50)
Suzuki: Y. Tarary H. Tsunoda.T. Mizushima-Sugano, J., Sese, J., Hata.

H., Ota.T., Isogai, T. Tanaka, T. Morishita, S., Okubo, K., Sakat,
Y., Nakamura.Y. Suyana, A. and Sugano, S.

Diverse transcriptional initation revealed by finc, large-scale
mapping of mRNA start sites

ENRO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /clone_lib='Sugano Romo sapiens cDNA library'
/note='Differential display comparison of untreated and
dimethyliumarate reated U937 cells'
8 c 23 g 13 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        / Match 15.3%: Score 18.4; DB 9; Length 46;
Local Similarity 78.6%; Prod. No. 7.1e+94.
res 22; Conservative 0; Mismarches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15.0%; Score 18; DB 9; Length 50; 70.6%; Pred, No. 9.8e+04; ative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism-"Homo saplens"
/db_xref-"taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24 ACCCACACTCATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lone-"HEP06267"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AU103646.1 GI:13553167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match
Best Local Similarity 70.61
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 3
AU103646/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /dev_stage="additations and the process of the proc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46 bp mRNA linear EST 18-JUN-1998 ov86932.sl Soares_testis_NHT Homo sapicns CDNA clone iMACE:1644242 A102574 t C TR:040402 Q40402 EXTENSIN ; mRNA Sequence. A1025674.1 GI:3241287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDM. Library Arrayed by: Greg Lennon, Ph.D.
NNA Sequencing by: Mashington University Genome Sequencing Center
Clone distribution: MCT-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LIML at:
www.bio.lini.gov/bbrp/lange/lange/hange.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Robert Strausberg, Ph.D.
Email: egapbs-rémail.nih.go
ONA Library Preparation: W. Bento Soares, Ph.D., M. Fatima Bonaldo
      855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Tel: 650 723 2227
Exa: 650 728 8221
Exail: walbotéstanford.edu
Very probable lightion site of ends cut by single endonuclease.
Very probable lightion street of ends cut by single endonuclease.
Prevere complemented post-lightion sequence from source sequence.
Plate: 1007114 column: 27
Class: transpoaor-tagged.
Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
Buraryota, Motazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Buraryota, Motazoa; Chordata; Craniata; Hominidae; Homo.
1 (bases 1 to 46)
1 (bases 1 to 46)
1 (chase 2 to 46)
1 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    / MAtch 16.3%: Score 19.6; DB 17: Length 46:
Local Similarity 66.7%: Peed. No. 2.9e+04.
Nes AB; Conservative 0: Mismarches 14; Indels
nes AB; Conservative 0: Mismarches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism-"Zea mays"
/cultiva--mixed background W13/A188/B13"
/culore_ltaxon:4577"
/clone_ltb="1007" RescueMu Grid H"
/tissue_type-"leaf"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25 CCCACACCTCATTATCCCCACTCCAGGGATTCAGGGGTTC 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Trace considered overall poor quality
Seq primer: -40ml3 fwd. ET from Amersham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tumor Gene Index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2
A1025674/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
```

Š ą ö

0; Gaps

ö

Gaps

```
Eukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1. (Dases 1 to 50)

Suzuki,Y. Talra,H. Tsunoda,T. Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogal,T., Tanaka,T. Morishita,S., Okubo,K., Sakaki,Y. Nakamura,Y., Suyama,A. and Sugano,S.

Pliverse transcriptional initiation revealed by fine, large-scale mapping of mRRA start sites

ENBO REP. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (17.JUN-2002) Weisshaar B., Max-Planck·Institut fuer Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln. 50829, Germany This sequence is recovered from the left border of the T-DNA. It Indicates an insertion within the locus defined by clone T17H7. The
                                                                                                                                                                                                                                                                                                                                                                                                                              Department of Virology
Institute of wedical Science, University of Tokyo
Institute of wedical Science, University of Tokyo
Institute of wedical Science, University of Tokyo
Email: Suzukiéfina.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa.K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched CDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AL761984 50 bp DNA linear GSS 19-JUN-2002 Arabidopsis thaliana T-DNA flanking sequence GK-230A05-014316, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Arabidopsis thallana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots;
Rosidae; eurosida II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rosso,M., Strizhov,N., Li,Y., Relss,B., Dekker,K. and Weisshaar,B. A new Arabidopsis thallana T-DNA mutagenised population (GABI-Kat) for flanking sequence tag based reverse genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Strizhov.M., Li.Y., Rosso.M., Viehoever.P., Dekker.K., Saedler,H. and Weisshaar.B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone_lib="Sugano Homo saptens cONA library"

//coce="Differential display comparison of untreated and dimethylfumarate treated U937 cells"
2 23 4 9 15 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A pipeline for automated high-throughput generation of FSTs (flanking sequence tags) from Arabidopsis thaliana f-DNA transformed lines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              / Match 14.3%; Score 17.2; DB 9; Length 50; Local Similarity 73.3%; Pred. No. 1.8e+05; nes 22; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Li,Y., Strizhov,N., Rosso,M. and Weisshaar,B. Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16 CTCTCCTCCTCACCTCATTGTCTCCCC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 CCCTCCTAACCCACACCTCATTATCCCCAC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism-"Homo sapiens"
/db_xref="taxon:9606"
/clone="HEP01537"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AL761984
AL761984.1 GI:21506071
                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ji, Y., Strick
                                                                 Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    thale cress.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e
8
                                                                                                                                                                                                                                                                                                                                                                       2127007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
ORGANISM
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loc
Matches
                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                   MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
AL761984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AI361993 49 bp mRNA linear EST 15-FEB-1999 qy49b08.xl NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2015319 3' similar to MP:C37A2.2 CE08611 ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bonaido, Ph.D. Control of the contro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EST 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases I to 49)
NCI/NINDS-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
NAIJONAL Cancer Institute / National Institute of Neurological
Disorders and Stricks, Brain Tumor Genome Anatomy Project
(CGAP/BTGAP), Tumor Gene Index
Unpublished (1988)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs rémail.nlh.gov
Ph.D.
Pissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUI04247 Sugano Homo saplens cDNA library Homo saplens cDNA clone HEPO1537, mRNA sequence.
AUI04247 GI:13553768
                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Library Preparation: M. Bento Soares, Ph.D., M. Fatima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14.3%; Score 17.2; DB 9; Length 49; 73.3%; Pred. No. 1.8e+05; tive 0; Mismatches 8; Indels
      50 TCATACCCAACAGCTCAGCGCCCCCTCTCCAGCG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Trace considered overall poor quality
Insert Length: 1543 Std Error: 0.00
Seq primer: -400P from Gbco
High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 CCCTCCTAACCCACACCTCATTATCCCCAC 45
                                                                                                                                                                                                                                                 AI361993
AI361993.1 GI:4113614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 73.3
Matches 22; Conservative
                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                  human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                              LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 5
AU104247
                                                                                                RESULT 4
AI361993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
```

```
Eukaryota Herazoa: Chordata: Craniata; Vertebrata; Euteleostomi; Hammalia: Euthoria Primates; Catarrhin: Hominidee; Homo.

1 (bases 1 to 50)

20 Exist. 7 Taira! H. Tsunoda, T., Mizushima-Sugano, J., Sese. J., Hata, H. Ota, T., Taira! H. Tsunoda, T., Morishita, S., Okubo, K., Sakaki, H., Ota, T., Isngai, T., Tanaka, T., Makaman, A. and Sugano, S.

21. Nakamura Y. Suyama, A. and Sugano, S.

21. Nakamura Y. Suyama, A. and Sugano, S.

Exist. Exist. Signal initiation revealed by fine, large-scale Exist. Exist. Signal (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Department of Virology institute of Medical Science, University of Tokyo in Medical Science, University of Tokyo 108-8639, Japan 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan Suzuki; Yashirok on Nakagawa, K., Maruyama, K., Suyama, A. and Sugano Suzuki; Y., roshirom on Nakagawa, K., Maruyama, K., Suyama, A. and Sugano S. Construction and characterization of a full length-enriched and a S.-end-enriched cDAM library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                50 bp mRNA linear EST 30.AUG-2001
AUJ03429 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
AUJ0300, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone_ippops;7*
//clone_ippops;7*
//clone_ippops;7*
//clone_ippops;7*
//clone_ippops;7*
//clone_ippops/comparison of untreated and indetty;1/fumarate treated 4097 cells*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Owery Match 14.2N: Score 17: DB 17: Length 43: Best Local Similarity 63.4%; Pred. No. 1.94-05. Best Local Similarity 63.4%; Pred. No. 1.94-05. Best Local Similarity 63.4%; Pred. No. 1.94-05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14.2%; Score 17; DB 9; Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   63 GITCCAGGGTTCCTGAAATGATCGAITGGCTTCCATAGCT 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AU103929
AU103929.1 GT:13553450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Guery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 8
AU103929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                                   /organisar Arabidopsis thatland
//strain="columbia 0"
//btrain="columbia 0"
//btrain="columbia 0"
//btrain="columbia 0"
//btrain="columbia 0"
//clone="for was performed on DNA from Arabidopsis thatland
//orge="por was performed on DNA from Arabidopsis thaliana
plants (T1) which were transformed with the T-DNA from
vector PACi6i. The lines contain one or more T-DNA from
insertions. The DNA fragment(s) resulting from the PCR
vert directly sequenced to determine the genomic sequence
flanking the insertion. Sequences displaying significant
similarity to the A. thalaha nuclear genome sequence vere
processed for submission. T-DNA derived sequences were
sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated 'GABI'. Information on line availability can be found at:
http://www.mpiz.koelh.mpg.de/GABI-Kat/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah Genome Research Bldg., 20 S. 2030 E., SLC. UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AZ796334 43 bp CNA linear GSS 16-FEB-2001 ZNO052T01F Mouse 10kb plasmid JUGCIM library Mus musculus genomic clone UJGC2M0052101 F, DNA sequence. AZ796334 GI:12944282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Miridae; Murinae; Mus. 1 (bases 1 to 4)
Dunn, D., Aoyaqi, A., Barber, M., Bacher, T., Duval, B., Hanil, C., M., Megare, S., Hahm, H., Eongacre, S., Hahmoud, M., Meenen, E., Pedersen, T., Reilly, M. Hosse, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., House whole genome scaffolding with paired and reads from 10kb plannid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"Mus musculus.
/strain-"c578L/6J-
/db_rare-"taxon:1000.
/clone-"uGCZR0052101
/clone-llb-"Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ch 14.34; Score 17.2; DB 17; Length 50; Smilarity 60.94; Precd No. 18e+05; 18e-18e; See 8 See Conservative 0; Mismatches 18; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13 TGACCCTCCTAACCCACACCTCATTATCCCCACTCCAGGGGATTC 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism-"Arabidopsis thaliana"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0052 row: I column: 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Plate: 0052 row: I column: 01
Seq primer: CorforAAACGAGGGCAGT
Class: plasmid ends
High quality Sequence stop: 43.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 7
A2796334/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
```

ò

```
66.7%; Pred. No. 2,3e+05;
tive 0; Mismatches 12;
Best Local Similarity 66.7
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                    plasmid inserts
                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                        house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                USA
                                                                                                                                                                                                                                                                                                                                                                                                              84112,
                                                                                                   RESULT 10
AZ460654/C
                                                                                                                             LOCUS
DEFINITION
                                                                                                                                                                                                       SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                              VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                              COMMENT
                                        ò
                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          plasmid inserts
Unpublished (2006)
Contact: Robert B. Heiss
University of Utah Genome Center
University of Utah
Rm. 308. Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                       A2960044
2M0227M23R Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0227M23 R, DNA sequence.
            ö
                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases I to 46)
Dunn,D., Aoyaqi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. Mouse whole genome scaffolding with paired end reads from 10kb
            0; Gaps
Best Local Similarity 80.0%; Pred. No. 2.1e+05;
Matches 20; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0227 row: M column: 23
Seg primer: CACACAGGAACACCTATGACC
Class: plasmid ends
                                 AZ960044.1 GI:13831271
                                                                                                                                                                                                                                                                                                                                                                                                                        Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                    Mus musculus
                                                                                                                                                                                                        house mouse
                                                                                                                                                                 A2960044
                                                                                                  RESULT 9
AZ960044/C
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                             ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                      TITLE
                                                              a
                                      ò
```

14.0%; Score 16.8; DB 17; Length 46;

Query Match

```
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a was hydrodynamically sheared by repeated passage through a was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligomucleotides were ligated to the blunt ends in high molar excess: The adaptored ONA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWNA2 (gil/472114|gbl/AF129072.1), a copy.number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coll XL10-Gold (Stratagene) cells and 4 c 21 g 11 t.
   ö
                                                                                                                                                                                                                                                                                                   A2460654 41 bp DNA linear GSS 04-OCT-2000 IMO2566P01F Mouse 10kb plasmid UUGCIM Library Mus musculus genomic clone UUGCIM0266P01 F, DNA sequence. A2460654 A2460654.1 GI:10618779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 41)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dunn.D., Aoyagi,A., Barber,M., Beacorn.T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Walss,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unpublished (2000)
Contact: Robert B. Welss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /lab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
hote="vector: PMD4Znv: Purified genomic DNA from N.
musculus GZPBL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse whole genome scaffolding with paired end reads from 10kb
       Gaps
..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone_lib-"Mouse 10kb plasmid UUGCIM library" /sex-"Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13.8%: Score 16.6; DB 17; Length 41;
   Indels
                                                                16 CCCTCCTAACCCACACCTCATTATCCCCACTCCAGA 51
                                                                                                      46 CCCTCCCCACCCCAACACCTCTATAATCCCTCCAGA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0266 row: P column: 01
Seg primer: CGTFGTAAAGGGGGCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /strain-"C57BL/6J"
/db_xref-"taxon:10090"
/clone-"UUGC1M0266P01"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      High quality sequence stop: 41. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
```

```
/BEX_NGALE
//BEX_NGALE
//BEX_NGALE
//BEX_NGALE
//DEX_NGALE
//DEX_N
                                                                                               Dunn, D., Aoyagi, M., Barber, M., Beacorn, T., Duval, B., Heally, Islam, H., Longare, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Nose, M., Rose, R., Stokes, R., Tingcy, A., von Niederhausern, A. and Wright, D., Weiss, R., Bokuse whole genome scaffolding with paired end reads from 10kb plasmid inserts unpublished (2000)
Contact: Robert B. Weiss
Contact: Robert B. Weiss
Contact: Robert B. Weiss
Contact: Wall Genome Contact
University of Utah
MR. 30M, Blomedical Polymers Research Bidg., 20 S. 2030 E., SLC. UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    B1761448 155-SEP-2001 35 bp mRNA linear EST 25-SEP-2001 603044269F1 NIH_MCC_ll6 Homo saplens cDNA clone INAGE:5184496 5',
                    Eskaryota: Metazoa; Clordata: Craniata: Vertebrata: Euteleostomi:
Mammaia: Eutheria: Rodentia; Sciurognathi: Muridae: Murinae; Mus.
1 (bases 1 to 3)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Mus musculus"
/organism="COSBL63"
/db.xrei="taxon:10090"
/clone="UNGCIMU569910"
/clone="Ilb:"Mousc 10kb plasmid UNGCIM library"
/sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 13.74: Score 16.4: DB 17: Length 33: Best Local Smilarity 76.94: Prect No 2.7e+05: December 20: Conservative 0; Mismatches 6: Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Pate: 0569 row: P column: 10
Seg primer: CACAAGGAAACAGGTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12 GTGACCCTCCTAACCCACACCTCATT 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           High quality sequence stop: 33. Iocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30 GTTACCCTACTAACCCATGCCCCACT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mRNA sequence.
BI761448
BI761448.1 GI:15753026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 801 585 5606
Fax: 801 585 7177
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
SOURCE
                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B1761448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /lab.host-longan: brain; vector: pCMV-SPORT6; Site_1: NoII;
//note-forgan: brain; vector: pCMV-SPORT6; Site_1: NoII;
Site_2: Ecory (destroyed); RMA source anonymous pool of 3 fetal brains, female age 20 weeks, female age 24 weeks,
and male age 20 weeks. Library is noilgo-dip primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.7 kb, insert size range 0.7-3.5 kb. Library is normalized and enriched for full:length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 017. Note: this is a NIH-MGC Library.

6 a 9 c 13 q 5 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Estaryota, thetacoa: Chordata; Craniata; Vertebrala; Buteleostomi; Estaryota; Hetacoa: Chordata; Craniata; Vertebrala; Buteleostomi; Cataryota; Catarhini; Hominidae; Botteleostomi; Manmaila: Eutheria Primates; Catarhini; Hominidae; Bood.

Estaryota; Tto 33)

RIH-WCC http://wgc.nci.nih.gov/
National Institutes of Health, Mammallan Gene Collection (MGC)

MATIONAL TRANSPORTE STRANSPORTE (1999)

Contact: Robert Strausberg, Ph.D.

Tissue Procurement: Life Technologies, Inc.
Coba Library Preparation: Life Technologies. Inc.
Coba Library Preparation: Life Technologies. Inc.
Coba Library Preparation: Life Technologies. Inc.
Coba Library Preparation: McC. Come distribution information can be found through the I.M.A.G. Consortium/LINL at:
Cond Cataribution: McC. Come distribution information can be found through the I.M.A.G. Econsortium/LINL at:
High quality sequence Stop: 33.

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A2769247

1M0569P10R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0569P10 R, DNA sequence.
A2769247.1 GI:12889184
                                                                                                                                                                                                                                                                                                                                    ö
                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
13.74: Score 16.4: DH 13: Length 33:
Best Local Sinilarity 94.44: Pred. No. 2.7e+05:
Matches 17: Conservative 0: Mismatches 1: Indels 0: Gaps
                                     0; Gaps
                                     9; Indels
Best Local Similarity 71.0%; Pred. No. 2.5e+05; Matches 22; Conservative 0; Mismatches 9
                                                                                                   13 TGACCCTCCTAACCCACACCTCATTATCCCC 43
                                                                                                                                         /clone_"IMAGE:5243684"
/clone_11b="NIH_MGC_121"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 GGGTTCCAGCGTTCCTGA 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14 GGGTACCAGCGTTCCTGA 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 12
AZ769247/C
                                                                                                                                                                                                                                                                                                                                            LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                 RESULT 11
81914625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
SOURCE
```

```
/strain="CSYBLA" musculus"
/strain="CSYBLA" musculus"
/db_xref="taxon:10090"
/clone="tucc2w0155x17"
/clone="tucc2w0155x17"
/clone="tucc2w0155x17"
/clone="tucc2w0155x17"
/clone="tucc2w0155x17"
/clone="tucc2w0155x17"
/clone="tucc2w015x17"
/clon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AI492250
43 bp mRNA linear EST 30-MAR-1999
tf59a03.xl NCI_CGAP_Brn23 Homo sapiens CDNA clone IMAGE:2103532 3'
similar to TR:Q39866 G39866 HYDROXYPROLINE-RICH GLYCOPROTEIN
:contains MER22 tl MSR1 repetitive element; mRNA sequence.
AI492250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryote, Metazoa: Chordata; Cranlata; Vertebrata; Buteleostoml; Mammalla; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 43)
NCININOS-COAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute / National Institute of Neurological Disorders and Stroke, Brain Tumor Genome Anatomy Project (CGRPFWTGAP), Tumor Gene Index Unpublished (1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oucry Match 13.7%; Score 16.4; DB 17; Length 42; Best Local Similarity 61.9%; Pred. No. 3e+05; Matches 26; Conservative 0; Mismatches 16; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16 CCCTCCTAACCCACACCTCATTATCCCCACTCCAGAGGGTT 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42 CCCACCCCACCCCACACACTTCCCATCCATT 1
     Tel: 801 585 5606
Fax: 801 585 701
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0155 row: K column: 17
Seq primer: CACKGAGAAACACTATGACC
Class: plasmid ends
High quality sequence stop: 42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AI492250.1 GI:4393253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bonaldo, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AI492250
                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /Abb_nosi- union
//Abb_nosi- u
ENAMONG Saplens
ENAMONG SET CACACHER CANDERS CALEBRATAS ELLEBEOSTOMIS
BARANGAL MELACAS CHORDATAS CALAITHINIS HOMINIDAS ELLEBEOSTOMIS
RS NIH MGC TATES ("Amgc. ncl. nlh. gov'
NIH MGC TATES ("Amgc. ncl. nlh. gov'
NATH MGC TATES ("Amgc. ncl. nlh. gov'
Ontact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Email: Gapbs remail.nlh.gov
Contact: Robert Strausberg, Ph.D.
Contact: Nobert Strausberg, Ph.D.
Contact: Nobert Strausberg, Ph.D.
Contact: Nobert Strausberg, Ph.D.
Contact: Modern Contact Contact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Blomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A2853008 42 bp DNA linear GSS 21-FEB-2001 2M0155K17R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCZM0155K17 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mamala; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Musinae; Lo 42)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Stokes, R., Stokes, R., Tingey, A., von Niederhausern, A., Musin, Musin, B., Meiss, R., Stokes, R., Tingey, A., von Niederhausern, A., Musin, D., Meiss, R., Stokes, R., Tingey, A., von Niederhausern, A., Diasmid inserts
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .,
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13.7%; Score 16.4; DB 13; Length 35; 94.4%; Pred. No. 2.7e+05; tive 0; Mismatches 1; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. 35

Acganism-"Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:5184496"

/clone=lib="NIH_MGC_116"

/lab_host-"pah108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AZ853008.1 GI:13040692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          duery Match 13...
Best Local Similarity 94.49
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ853008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 14
A2853008/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
COMMENT
                                                                                                                                                                                                                                                        TITLE
JOURNAL
COMMENT
                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
```

g

Page 9

```
this year. Take the parameter of the properties passage through a was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end repaired with T4 DNA polymerase and T4 polymurleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb ranew using preparative against green and preparative against green selected for a 9.5 to 10.5 kb ranew using preparative against green and preparative against green and preparative against green and preparative against green and profit green while the preparative against green and green and green with adaptore complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored weetor DNA, and transformed into chamically-competent R. Coll XLIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs:Femil.nih.gov
CDMA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ali98940 ARNA linear EST 27-JAN-1999 40666941 Soares testis_NHT Homo sapiens CDMA clone IMAGE.1755017 3/ similar to SW:EXTM_TOBAC P1989 EXTENSIN PRECURSOR ; contains element MSR1 repotitive element ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDNA Library Arrayed by: Greg Lennon. Ph.D.

DNA Sequencing by: Mashington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the 1.M.A.G.E. Consortium/LIML at:
vvv-bio.lini.gov/Dbrp/limge/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Hetazoa; Chordata; Catarrhini; Hominidae; Homo,
1 (bases 1 to 40)
NGT-GAB http://www.ncbi.nlm.nih.gov/ncrogap.
Hational Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index.
                                                                                                                                                                        Colone_lib- House 10kb plasmid UUGCIM library
/sex_Nale

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Owery Match 13.5%; Score 16.2; DB 17; Length 36; Best Local Smilarity 72.4%; Pred No. 3.2e+65; Make Local Smilarity 72.4%; Pred No. 3.2e+65; Si Make Si Indels 0; Gaps Matches 21; Conservative 0; Mismatches 8; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Trace considered overall poor quality
Insert Length: 620 Std Error: 0.00
Seq primer: -400P from Gibco
High quality Sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   36 TIATCCCCACTCCAGAGGGATTCAGGGGT 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism-"Mus musculus"
/strain-"C57HL/6J"
/db_xrei-"taxon:10090"
/clone-"UUCC1M0339B11"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A1198940
A1198940.1 G1:3751546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Source
    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT :7
AI198940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA2500971 Mouse 10kb plasmid UUCCIM library Mus musculus genomic clone UUGCIM0379811 R. DNA sequence.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Mashington University Genome Sequencing Center
Clone distribution: NCI-CGP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nus musculus

Bukaryota: Metazoa; Chordata: Craniata: Vertebrata: Euteleostomi.

Bukaryota: Metazoa; Chordata: Sciurognathi; Muridae: Murinae: Mus.

Dunn.D., Aoyadi.A., Barber.M., Beacorn.T., Duvai.B., Hamil,C., Islam, H., Longate.S., Mahmoud,M., Meenen.E., Pedersen.T., Relily,M., Rose,M., Rose,M., Rose,M., Rose,M., Rose,M., Rose,M., Mahmoud,M., Ingey,A., von Niederhausern.A.

House Whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 13.7%. Score 16.4; DB 9: Length 43; Best Local Similarity 67.6%; Pred, No. 3e-05; Matches 23; Conservative 0; Mismatches 11; Indels Harches 13; Conservative 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /db_xref-"taxon:9606"
/clone=liba-WCl_CGAP_Brn23"
/tlssue_type="91Loblastoma (pooled)"
/lab_bost-"DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16 CCCTCCTAACCCACACCTCATTATCCCCACTCCA 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CCCCCANACCATTCCTCTATCACTCCCCACCA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dmail: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0339 row: B column: 11
                                                                                                                                                                                                                                      Trace considered overall poor quality Insert Length: 873 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Plate: 0339 row: B column: 11
Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 36.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism-"Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                    Seq primer: -400p from Gibco
High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AZ500971.1 GX:10682287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              801 585 5606
801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
                                                                                                                                                                                                                                                                                                                                                                                                                                           Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 16
A2500971/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
```

ŝ

```
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A2768968/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      윱
                                                                                                                                                                                                                                         Double-stranded CDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo.
                                                                                                                            Dun, D., Aoyaqi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M. Rose, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R. B., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R. Brose whole genome scaffolding with paired end reads from 10kb plasmid inserts of University of Utah Genome Center University of Utah Genome Center University of Utah Genome Center University of Utah Research Bldg., 20 S. 2030 E., SLC, UT M. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A2767497 45 bp DNA linear GSS 16-FEB-2001 1M0566008R Nouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0566008 R, DNA sequence.
A2767497 1 GI:12885652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Manmalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 45)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /lab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
hote="Vector: PWD42nv; Purified genomic DNA from N.
musculus G37BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism-"Mus musculus"
/strain-"C57BL/64"
/db.xref="textor:10090"
/clone="UUGCIM0566008"
/clone=lib-"Mouse 10kb-plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 13.5%; Score 16.2; DB 9; Length 40; Best Local Similarity 64.9%; Pred. No. 3.4e+05; Matches 24; Conservative 0; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12 GTGACCCTCCTAACCCACACTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 GGGCCCCCCCCCCCCGCGACCTTTTTTCCCCACCCC 38
                                      /clone='IMAGE:1755017"
/clone_lib="Soares_testis_NHT"
/sex="male"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0566 row: 0 column: 08
Seg primer: CACACAGGAAACAGCTATGACC
/organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  High quality sequence stop: 45. Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       801 585 5606
801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 18
A2767497/c
                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
```

ò 8

```
was hydrodynamically sheared by repeated passage through a was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymeraciotide kinase. Adaptor oligomichocitides were ligated to the blunt ends in high molar excess. The adaptored DNA was purfiled and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil4732114gplAR129072.1), a copy.number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coll XLNO-Gold (Stratagene) cells and selected composition of 15 f.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A2768968 47 bp DNA linear GSS 16-FEB-2001
1M0568P09F Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0569P09 F. DNA sequence.
A2768968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoe; Chordata; Cranlata; Vertebrata; Euteleostomi; Mammala; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. I (bases 1 to 47)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenan, E., Pedersen, T., Reilly and Wright, D., Weiss, R., Stokes, R., Tingey, A., von Niederhausern, A. House whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /lab_hoge=*E. Coli strain XLIO-Gold, T1-resistant, P-*
hote="Vector: PMD47nv; Purified genomic DNA from N.
musculus C37BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 13.54; Score 16.2; DB 17; Length 45; Best Local Similarity 64.9%; Pred. No. 3.5e+05; Matches 24; Conservative 0; Mismatches 13; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 TCGATGCCATAGTGACCCTCCTAACCCACACCTCATT 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0569 row: P column: 09
Scg primer: CGTYCTAAACGACGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Mus musculus"
/strain="C578L/63"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /db_xref-"taxon:10090"
/clone="UUGC1M0569P09"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            High quality sequence stop: 47. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AZ768968.1 GI:12888615
```

```
hybridization reaction. The driver was PCR-amplified CDNAs from a pool of 5,000 clones anded from the same library cloneins 1233912-132981, 1471366-1472903 and 11492104-14923555. Subtraction by Bento Soares and M. Fetina Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GSS 22-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BHY40635

BP DNA linear GSS 22-FEB-2002 KG04938-5prime Drosophila melanogaster P(SUPor-P) P element insertion lines Drosophila melanogaster genomic Sequence recovered from 5' end of P element. DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The P element insertion position is base 32 in the 39 bases. This insertion position refers to the first base of the 8 base target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism-*Drosophila melanogaster*
/db_xrei**taxon:7227
/clone_lib-*Drosophila melanogaster P[SUPor-P] P element
//sertion_lines*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Another inverse PCR was performed on Drosophila melanogastics stealine seah of which contains one or more P(SIPORTP) Prelement transposon insertion. The resultant fragment (for each strain was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at the protocols used the protocols u
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dmail: gerryéfruitly berkeley edu
Sequence recovery method was Inverse PCR.
Seguence oftentation is forward strand relative to 5' end of P
                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                              / Match 13.5%: Score 16.2; DB 9; Length 49; Local Similarity 64.9%; Pred. No. 1.7e-05. Predictes 49; Conservative 0; Hismatches 13; Indels nes 24; Conservative 0; Hismatches 13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 13:3%: Score 16: DB 17: Length 39: Best Local Similarity 68:8%: Pred: No. 3:9e-05: Matches 22: Conservative 0; Mismatches 10: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15 ACCCTCCTAACCCACACCTCATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Berkeley Drosophila Genome Project
University of California, Berkeley
LSA Building, Berkeley, CA 94720-3200, USA
Fax: 510643947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          79 AAATGATCGATTGGCTTCCATAGCTGCTGAAT 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 AAAAGAACGAATCGAATCGAATGATGATGAT 39
                                                                                                                                                                                                 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Class transposon-tagged.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 9
                                                                                                                                                                                                 5
6
                                                                                                                                                            Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BH740835.1 GI:18861338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Gerald Rubin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      recognition sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         fruit fly.
                                                                                                                                                                                                      19 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BH740835
                                                                                                                                                                                                                                                                                                                        Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
DEFINITION
                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 21
BH740835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              None saplens
Exharota; Hetzoa: Chordata: Cranista: Vertebrata; Euteleostom:
Exharota; Hetzoa: Chordata: Cranista: Vertebrata; Euteleostom:
Ramaalla: Eutherla: Primetes; Catarrhini; Hominidae; Homo.

1 (bases 1 to 49)
RMI-CCAB (MID://www.ncbi.nilm.nih.gov/nclcgap.
RMI-CCAB (Antp://www.ncbi.nilm.nih.gov/nclcgap.
RMI-CCAB (1997)
Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Enail: cgapbs-remail.nih.gov
Tissua Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Enail: cgapbs-remail.nih.gov
Tissua Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Enail: cgapbs-remail.nih.gov
CoNA Library Freparation: M. Bento Soares, Ph.D.
CONA Library Freparation: W. Greg Lemnon, Ph.D.
CONA Library Freparation: M. Hashington University Genome Sequencing Conter
Clone distribution: NCI-CGAP Clone distribution information can be
found through the I. M.A.G.E. Consortum/Liml.at:
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared but off off the at constant velocity. The sheared but off off the at constant velocity. The sheared but of but off the at constant velocity. The sheared but off the adaptor oils off and at a cases. The adaptored but ends in high molar excess. The adaptored but was purified and size-selected for a 9.5 to 10.5 kb range using preparative agazose gel electrophoresis. Vector DNA was prepared from a derivative of pWG42 (alif132114/19b) h8713072.]), a copy number inducible derivative of pasmid 81. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into adaptored overtor may annealed to adaptored overtor may annealed to adaptored overtor plan, and transformed into chemically-competent E. coli Xil0-Gold (Stratagene) cells and selected for amplicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 49 bp BRNA linear EST 02-SEP-1999 wplialix1 MCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464508 3' similar to SN:C214_HUMAN P56557 17.9 KD NEMBRANE PROTEIN C21ORF4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note-Organ: Kidney; Vector: pT771D-Pac (Pharmacia) with a modified polylinker; Site. 1: Not 1: Site. 2: Eco RI: Plasmid DNA from the normalized Library NCI_CGAP_Kid5 was prepared, and as circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone_limAGE.2464568.
/clone_lib=*MCL_CGAP_Kidl2'
/tissue_type=*2 pooled tumors (clear cell type)'
/lab_host=*0HlOB"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 13.5%; Score 16.2; OB 17; Length 47; Best Local Stanlarity 64.9%; Pred; No. 3.6e-05; Matches 24; Conservative 0; Mismatches 13; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27 CACACCTCATTATCCCCACTCCAGAGGGATTCAGGGG 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Trace considered overall poor quality
Seq primer: -40UP from Gibco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seq primer: -400V trum carried primers sequence stop: 1.
High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A1928097.1 GI:5664061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A1928097
```

```
E Lacardius Rusaculus Eutheria: Morndata: Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata: Craniata; Vertebrata; Euteleostomi; Mamalia; Eutheria: Rodentia: Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 50)

E 1 (bases 1 to 50)

E 2 (bunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Hahmoud, M., Menen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss R.

House whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)

Contact: Robert B. Weiss
University of Utah Genome Center
                                                                                                                                                                   Email: estewatson wustl.edu
Insert Size: 794
High qality sequence stops: 1
High qality sequence stops: 1
Source: IMAGE Consortium, LLNL This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov)
for further information.
Insert Lenghh: 794
Seq primer: -21m13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11M0454008R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0454008 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                   Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway. Box 8501, St. Louis, NO 63108
Far: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 13.3%; Score 16; DB 14; Length 48 Best Local Similarity 76.0%; Pred. No. 4.2e+05; Matches 19; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref="GDB:497943"
/db_xref="GDB:497943"
/db_xref="taxon:9606"
/clone="IMAGE:78198"
/clone="Image:Aratagene liver (#937224)"
/sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fmail: ddunn@genetics.utah.edu
Insert Length: 10000 Std Brror: 0.00

    .48
    /organism="Homo sapiens"

Genome Res. 6 (9), 807-828 (1996)
97044478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 GCCATAGTGACCCTCCTAACCCACA 30
                                                                                                                                                                                                                                                                                                                                                      High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ621474.1 GI:11743664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tel: 801 585 5606
Fax: 801 585 7177
Emall: ddunnfqener
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nouse mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             84112.
                                                                                                                                                                                                                                                                                                                                                                                                          Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
            JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 24
A2621474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (Dases 1 to 48)
Hiller, L. Lendon, G., Becker, M., Bonaldo, M.F., Chiapelli, B.,
Chissoe, S., Dietrich, N., Dübuque, T., Favello, A., Gish, W., Hawkins
, M., Hulfman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Mardis, E.,
, Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,
Schellenberg, K., Soares, M. B., Tan, F., Thierry Mega, J., Trevaskis, E.,
Underwood, K., Wohldmann, P., Materston, R., Wilson, R. and Marra, M.
Generation and analysis of 280,000 human expressed sequence tags
                                                                        TA294A10Q 47 bp DNA linear GSS 13-DEC-2000 T. brucel sheared genomic DNA clone 294a10, reverse sequence, genomic survey sequence.
AL466316 GI:11853377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EST 13-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                Trypanosoma.

1 (bases 1 to 47)
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Helyille, S. E., Rajandream, M.A. and Barrell, B.G.
Direct Submission

Submitted (10-DEC-2000) Trypanosoma brucel genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 iSA, E-mail: barrell@sanger.ac.uk and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanesoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (
4 kb). The v + 1 method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing A Practical Approach, eds. H. Vaudin and B.
Barrell, Oxford University Press, 1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: nelsayedtigr.org

Email: nelsayedtigr.org

Details of T. brucel sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucel/

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryoča; Metazoa; Chordata; Craniata; Vertebrata: Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      folo/3 totatagene liver (4937224) Homo sapiens CBN clone IMAGE:78198 3' similar to gb:X02544 ALPHA-1-ACID GLYCOPROTEIN 1 PRECRESOR (HUMAN); mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                      Trypanosoma brucei
Eukaryota: Euglenozoa: Kinetoplastida: Trypanosomatidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Natch 13.3%; Score 16: DB 17; Length 47; Local Similarity 79.2%; Pred. No. 4.2e+05; les 19; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"rrypanosoma brucei"
/strain-"rRED927"
/db_xref="taxon:5691"
/clone="294a10"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  72 TICCIGNAAATGAICGAITGGCIT 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10 9
                                                                                                                                                                                                                       Trypanosoma brucei.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T61673.1 GI:664710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nhlesanger.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        T61673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                    RESULT 22
TA294A10Q/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         T61673/c
LOCUS
DEFINITION
                                                                                                                                                                           VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
```

q

```
Chipsivalury modes are non-second contents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0 005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymoreleotides kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb rapege using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pheavily of preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of plasmid R1. The vector was liqated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored ector DNA, and transformed into chemically competent E. coli XLIO Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A552612.
AFG26127 Mouse 10kb plasmy UNCCHH 1brary Mus musculus genomic
close UGCHM0466007 F. blan sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rm. 308, Biomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutcleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 30)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, M., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Mose, M., Kose, M., Wose, M., Wasse, M., Wasse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /lab_host="E. Coli strain XLIO-Gold, fl-resistant, P-
/note="vector: PM042nv; Purified genomic DNA from H.
musculus C57BL/G (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone-*uuGC2M0068019*
/clone_lib-*Mouse 10kb plasmid UUGC1M library*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ? CCATAGTGACCCTCCTAACCCACACCTCATTATCCCCACT 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 13.3%. Score 16: DB 17: Best Local Similarity 62.5%; Pred. No. 4.3e-65: Matches 55: Conservative 0: Mismatches 15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0068 row: O column: 19
Seg primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 50.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                              /organism-"Mus musculus"
/strain-"C57BL/6J"
/db_xref-"taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AZ626127.1 GI:13748317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 26
AZ625127/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYMORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              And the provided of the property of the property of the provided of the provid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Plasmid inserts
Uppublished (2000)
Contact: Nobert B. Weiss
University of Utah
University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2M0068019R Mouse 10kb plasmid UUGCIM linear GSS 20-FEB-2001 clone UUGCZM0068019 R. DNA sequence. AZ806715.1 GI:12970342 GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 His musculus Elkarous Chordata; Craniata; Vertebrata; Euteleostomi; Elkarous, Hetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mamaalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musina; Iobasaa 1 to 50)
Duni, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacres, S., Mahmoud, M., Heenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           //ab_host="E. Coll strain XLIO-Gold, Tl-resistant, F-"
//note="Vector: PWO42nv; Purified genomic DNA from H.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                /db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xrain_/db_xr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match

13.34: Score 16; DB 17: Length 50;
Best Local Similarity 68.34; Pred. No. 4.3e+05;
Matches 22: Conservative 0: Wismatches 10: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88 ATTGGCTTCCATAGCTGCTGAATTGCAGTTTA 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Plate: 0454 row: O column: C8
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                   /organism="Mus musculus"
/strain="C57BL/6J"
                                                                                                                                                                   High quality sequence stop: 50.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               house mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 25
AZ806715/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
```

```
Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 house mouse.
                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 28
A2514366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              q
                                                                                                                                                                                                                                                                                                                                                                                  /abc.-Maie.
/lab_haie.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               38 bp DNA linear GSS 16-FEB-2001 2M002F14R Mouse 10kb plasmid UUGCIM library Hus musculus genomic clone UUGCIM0022F14 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus

Rukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalla; Eutheria; Rodentia: Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 38)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

Islam, M., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Relly

M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.

and Wright, D., Weiss, R.

Mouse While genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                              /clone_lib="Mouse 10kb plasmid UUGCIM library"
/sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 13.2%; Score 15.8; DB 17; Length 30; BBSt Local Similarity 74.1%; Pred. No. 4e+05; Matches 70; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: ddunnegenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0466 row: O column: 07
Seq primer: CGTGTAAAAGGACGCCAGT
Class: plasmid ends
High quality sequence stop: 30.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              89 TIGGUITCCAIAGCIGCIGAATICCAG 115
                                                                                                                                                                                                /organism="Mus musculus"
/strain="C57BL/63"
/db_xref="taxon:10090"
/clone="UUGC1M0466007"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AZ782425.1 GI:12916134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NSA
                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 27
AZ782425/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
```

```
/actor—line mouse that pressing occurs thereby /actor—line mouse that pressing occurs thereby /actor—line mouse that thereby year. It is a profession of the line as a constant of the line as a constant of the line as a constant of the line as a part of the line as a constant velocity. The sheared but was hydrodynarically sheared by repeated passage through a was hydrodynarically sheared by repeated passage through a was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high moular excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwhot? (gila/32114)gblAsi29072.11, a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chancally-competent E. coll XL10-Gold (Stratagene) cells and sicected for a 3 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A2514366 45 bp DNA linear GSS 05-0CT-2000 LM055102F Mouse l0kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0361D02 F, DNA sequence. A2514366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota, Metazoa; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 45)
Eunn, D., Aoyaqi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Esban, H., Longaczes, Nehmoud, M., Meenen, E., Pedersen, T., Railly
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Gaps
                                                                                                                                                                                                                                                                                     /db_xref="taxon:10090"
/clone="UUGC2M0022F14"
/clone_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ch 13.2%; Score 15.8; DB 17; Length 38; I Similarity 74.1%; Pred. No. 4.4e+05; 20; Conservative 0; Mismatches 7; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0022 row: F column: 14
Seg primer: CAAACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 38.
Location/Qualifiers
                                                                                                                                                                                                                   /organism="Mus musculus"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 TCGATGCCATAGTGACCCTCCTAACCC 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27 recarecearancedecaceaaace 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A2514366.1 GI:10695682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rel: 801 585 5606
Fax: 801 585 7177
```

```
/sex=Wale
//sex=Wale
/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NULU3234 SUBBO HOMD Saplens CDNA library Homo sapiens CDNA Clone KAT1163, MRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fulkaryotic Hetazoa; Chordata: Cianiata; Vertebrata; Euteleostomi; Hammalia: Eutheria: Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mitushima-Sugano, J., Sese, J., Hata, H., Gari, Isogali, T., Tanda, T., Mortshima-Sugano, J., Sese, J., Hata, Y., Makamira, Y., Suyama, A. and Sugano, S.

Diverse transcriptional initiation revealed by fine, large-scale mapping of maka scart sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokannedai, Minatoku, Tokyo 108-8639, Japan
4-6-1, Shirokannedai, Minatoku, Tokyo 108-8639, Japan
4-6-1, Shirokannedai, Minatoku, Tokyo 108-8639, Japan
5-8-1, Shirokannedai, Minatoku, Maruyama, K., Suyama, A., and Sugano
5-8-1, Shirokannedai, Minatokan, Maruyama, K., Suyama, A., and Sugano
5-8-1, Construction and characterization of a full length-enriched and
a 5-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                               /clone_lib-"House loxb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 13.0%; Score 15.6; DB 17: Length 37: Best Local Similarity 70.0%; Pred. No. 5.1e+05; Matches 21; Conservative 0; Mismatches 9; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 AGTGACCCTCCTAACCCACACCTCATTATC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 AATGAGAGTCTTAACTTAGAGGAGGATAAGG 31
Plate: 0401 row: P column: 17
Seq primer: CGTOGAAAGGAGGGCAGT
Class: plasmid ends
High quality Sequence Stop: 37.
                                                                                                                                                                                                         /organism-'Mus musculus'
/strain-'c5781,/6J*
                                                                                                                                                                                                                                                                                     /db_xref-"taxon:10090"
/clone-"UUCC1M0401P17"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AU103234.1 GI:13552755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21270072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact:
                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 30
AU103234/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 hoch orifice at constant velocity, the sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymecacide kinase. Adaptor oligonucicotides were ligated to the blunt ends in high molar access. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis vector DNA was prepared from a derivative of public (gill/3114) gph/R12907.1.), a copy number of public derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to damptored vector DNA, and transformed into chemically competent E. coll XIIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17 bp DNA linear GSS 13-DEC-2000 clone UUGCIMO401217F Mouse 10kb plasmid UUGCIM library Mus musculus genomic AZS91306 augusto 17: DNA sequence. AZS91306.1 GI:11713496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SIC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             house mouse.

Was must actually the Marker of Craniata: Vortebrata; Eutcloostomi: Bukaryota; Hetazoa; Chordata; Craniata: Vortebrata; Eutcloostomi: Hammalia: Eutheria; Rodentia; Sciurognathi: Muridae; Murinae: Mus. 1 (bases 1 to 3).

Boun, D., Aoyagi, A., Barber, M., Beacorn, T., Duvai, B., Hamil, C., Islam, M., Longacre; S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Yose, R., Stokes, R., Tingey, A., von Niederhausern, A. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts.
                                                                                                                                                                                                                                                                                Abzraf-tazon 10090.

Acione-utorChMoisolDoz-
Acione-utorChMoisolDoz-
Ascr-Wale
Ascr-Wale
Actor Coli strain XiJO-Gold, Tl-resistant, F-
Actor Weetor: PHG42nv; Purified genomic DNA from M
musculus CSISULGJ (MARSOUCCE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 13.24; Score 15.8; DB 17; Length 45; Best Local Similarity 74.14; Prv Mo. 4.8e-65; The Matches 20; Conservative 0; Mismatches 7; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
    Plate: 0361 row: D column: 02
Seg primer: CGTTGTAAAACGACGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                      /organism-"Mus musculus"
/strain-"C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unpublished (2000)
Contact: Robert B. Welss
University of Utah Genome Conter
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18 CTCCTAACCCACACCTCATTATCCCCA 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 CTCACACACACCCCTCAATATACACA 29
                                                                                                      High quality sequence stop: 45. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 29
A2591306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
```

à

```
Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AZ776846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1M0413723F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0412723 F, DNA sequence.
AZ597958
AZ597958.1 GI:11720148
GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with 14 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel. electrophoresis. Vector DNA was prepared from a derivative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota: Metazoa; Chordata; Craniata: Vertebrata; Euteleostomi; Hammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 50)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., M., Rose, M., Ro
                                                                                                                                     /clone_lib-*Sugano Homo sapiens cDNA library*
/notc-*pifferential display comparison of untreated and
dimethyliumarate treated 0937 cells*
1 15 8 9 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /ldc_host="E. Coli strain XLIO-Gold, Ti-resistant, F-note="Vector: PMA4" vi Purified genomic DNA from M. musculus C57BL/GJ (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /db_xref-"taxon:10090"
/clone='UUGCIM0412J23"
/clone_lib-"Mouse 10kb plasmid UUGCIM library"
/sex-"Hale"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73 TCCTGAAATGATCGATTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                       13.0%; Score 15.6; DB 9; Length 50; 58.7%; Pred. No. 5.8e+05; tive 0; Mismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: ddunn@genetics.utah.edu
Insert Lengh: 10000 Std Error: 0.00
Plate: 0412 row: J column: 23
Seq primer: CGTTGTAAAACGACGGCCAGT
1. .50
/organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"Mus musculus"/strain-"C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Class: plasmid ends
High quality sequence stop: 50.
Location/Qualifiers
                                                                                                             /clone-"KAT11963"
                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 58.74
Matches 27: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            house mouse.
Mus musculus
                                                                                                                                                                                                                                                      Ø
                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AZS97958/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VERSION
KEYWORDS
SOURCE
ORGANISM
        source
                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
```

```
(http://www.dax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymocleotide kinase. Adaptor oliganucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gl14732114/gb1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coll XLIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A2776846
34 bp DNA linear GSS 16-FEB-2001
ZMOJOA20R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGC2MOJOA20 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria: Rodentia: Sciurognathi; Muridae: Murinae: Mus. 1 (bases i to 34)

Dunn, D., Aoyaqi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., Tingey, A., von Niederhausern, A. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /db_xref-"taxon:10090"
/db_xref-"taxon:10090"
/clone=lugc2k0010A20"
/clone=lugc2k0010A20"
/sex="wale"
/lab_host="E. Coli strain XLIO-Gold, Ti-resistant, F-"
/note="vector: PWAD-YON: Purified genomic DNA from H.
musculus GSTBL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert B. Weiss
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                               Match 13.04; Score 15.6; DB 17; Length 50; Local Similarity 58.74; Pred. No. 5.8e+05; nes 27; Conservative 0; Mismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 TCGATGCCATAGTGACCCTCCTAACCCACACACATTATCCCCACT 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Erro
Plate: 0010 row: A column: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                High quality sequence stop: 34. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /strain="C57BL/6J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AZ776846.1 GI:12904831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         84112,
```

```
of pwD42 (gil4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The Sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli xLID-Gold (Stratagene) cells and selected for amptcillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        http://www.lax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constent velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored bNA was purified and size selected for a 9.5 to 10.5 kb range using preparative agarose gcl electrophoresis. Vector DNA was prepared from a derivative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Blomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GSS 16-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryote, Helazoe, Chordala, Craniata, Vertebrata, Euteleostomi, Mommalia: Eutheria, Rodentia, Sciurogiathi, Nuridae, Murinae, Mus. 1 (bases 1 to 45)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Nahmoud, M., Heenen, E., Pedersen, T., Reilly, M. Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, S., Marina, M., Ma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A2776609.1 G1:12904380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /lbb_bost="E. Coli strain XLNO-Gold, Tl-resistant, F". Anote="Vector: Published genomic DNA from M. Anotesulus CSYBL/GJ (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /db_xree="taxon:10090" /clone="UUGC2M010120" /clone="UUGC2M010120" /clone_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 12.8%; Score 15.4; DB 17; Length 35; Best Local Similarity 66.7%; Pred. No. 5.7e+05; Matches 22; Conservative 0; Mismatches 11; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16 CCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: ddunnégenetius.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0010 row: J column 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                33 CCCIACCCACCCATTCCCCATTTTTTCCACTGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Plate: 0010 row: J column: 20 seq primer: CGTTGTAAAACGACGGCCAGT CLass: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism-"Mus musculus"
/strain-"C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     High quality sequence stop: 45. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunnfgenet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NS/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 34
A2776609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL.
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /gexmwile_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_rouse_ro
           of pWD42 (gil47321141gb]AF129072.1), a copy-number inducible derivative of plasmain R: The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XLI0-Gold (Stratagene) cells and selected for amplitally resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AZ440999 35 bp DNA linear GSS 03-OCT-20C0 IM0233G22F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0233G22 F, DNA sequence.
AZ440999.1 GI:10565012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 309, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112. USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fukaryota, Metazoa; Chordata; Craniata; Vertobrata; Euteleostomi; Mammalia; Eutheria; Rodentla; Sciurognathi; Muridae; Murinae; Mus. Mammalia; Eutheria; Rodentla; Sciurognathi; Muridae; Mus. Mus. J. (bases 1 to 35)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., 1slam, H., Longacze, S., Malmoud, M., Heenen, E., Pedersen, T., Reilly, M., Rose, M., Mose, M., Stokes, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., Muse whole genome scaffolding with paired end reads from 10kb plasmid insertis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:10090"
/clone="UUGCIM0232G22"
/clone_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Watch
12.8%; Score 15.4; DB 17; Length 34;
Best Local Similarity 66.7%; Pered. No. 5.66+05; Score
Matches 22; Conservative 0; Mismatches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16 CCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dmail: ddunm@genetics.utah.edu
losert.length: 10000 5td Error: 0.00
Plate: 0212 row: G column: 22
Seq primer: CGTTGTAAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 35.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 cccccrccccccccrrcccccccccc 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   organism-"Mus musculus"
/atrain-"C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 33
AZ440999/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
```

```
45 CTGAGAATGAGAGGCTGAAGGCCAGCTTTGCTCAATGGAG 5
                                                                                                                                                                                                                                                                                                                                                                                                                                             www-bio.lln1.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Trace considered overall poor quality Insert Length: 699 Std Error: 0.00 Seq primer: -400F from Gibco High quality sequence stop: 1. Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 49
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2237927"
/clone=llb="NCI_CGAP_GC6"
AI917385
AI917385.1 GI:5637240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W73879.1 GI:1382521
                                                                                                                                                                                                                     Unpublished (1997)
                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                     REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                     JOURNAL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W73879/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
of pWD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XLIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                   48 bp mRNA linear EST 03-DEC-1999 FI-367D 22 week old human fetal liver cDNA library Homo sapiens cDNA clone F1-367D 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhin; Hominidae; Homo.

1 (bases 1 to 48)
Choi, S.S., Yun, J.W., Choi, E.K., Cho, Y.G., Sung, Y.C. and Shin, H.S. Construction of a gene expression profile of a human fetal liver by single-pass cDNA sequencing Hamm. Genome 6 (9), 653-657 (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /Organism-"Homo sapiens"
//db_xref='taxon:9606'
//clone='ri-1867D'
//clone='lb='22 week old human fetal liver cDNA library"
//ab_host='xl='Dlue MRF'
//note='vector: pBluescriptII SK('); Site_1: EcoRI; Site_2:
Xhoi: The cDNA library made by oligo-dT primed and
afrectionally cloned between 5'ExoR I-Xhoi3' sites."

all 1 1 9 9 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A1917385 49 bp mRNA linear EST 14-DEC-1999 ts83h12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2237927 3' similar to TR:O60631 060631 OUTER DENSE FIBER PROTEIN 2/2. :, mRNA
                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                         Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                 DB 17; Length 45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12.8%; Score 15.4; DB 14; Length 48; 61.0%; Pred. No. 6.6e+05; ative 0; Mismatches 16; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Hee-Sup Shin
Developmental Genetics
Pohang Institute of Science & Technology
San31, Hojadong Pohang, 790-784 Republic of Korea
Fax: 562-279-2291
                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39 TCCCCACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCTGAA 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 TACCAACTGCAGGAAACTTTGAAGCCTTCATGA 42
                                                                                                                                                                                          Query Match 12.8%; Score 15.4; DB 17 Best Local Similarity 66.7%; Pred. No. 6.4e+05; Matches 22; Conservative 0; Mismatches 11
                                                                                                                                                                                                                                                                             16 CCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                 Email: shinhs@vision.postech.ac.kr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seq primer: T3 primer.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R29249.1 GI:1547232
                                                                                                                                       45 C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity 61.09 es 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
                                                                                                                                       BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                            RESULT 35
R29249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AI917385/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                         ORIGIN
                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
Contract: Robert Strausberg, Ph.D.
Contract: Robert Strausberg, Ph.D.
Contract: Robert Strausberg, Ph.D.
Tissue Procurement: Contristopher A. Moskaluk, M.D., Ph.D., Michael
R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Gonaldo, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: MCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLML at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Content of the conten
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #/Jory 49 pmRNA linear EST 17-OCT-1996 2d68h10.s1 Soares_fetal_heart_NDHH19W Homo sapiens CDNA clone IMAGE:345859 3' similar to SW:RS19_RAT P17074 40S RIBOSOWAL PROTEIN $19. [1] ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Hammalia: Eutheria: Primates: Catarrhin; Hominidme; Homo.
1 (bases 1 to 49)
Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kocaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Momanita; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 49)
NGT-CGAP http://www.ncbi.nlm.nlh.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 12.8%; Score 15.4; DB 9; Length 49; Local Similarity 61.0%; Pred. No. 6.6e+05; Certos. 25; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue_type="pooled_germ cell tumors".
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                75 CTGAAAATGATCGATTGGCTTCCATAGCTGCTGAATTGCAG 115
```

```
/stsve_rispe='Cerebrum'
/stsve_rispe='Cerebrum'
/de_stague'8-12 weeks old*
/note='Vector: pMO'T (TakaRa, D504 CA); The rat stroke
/note='To pmo; TakaRa, D504 CA); The rat stroke
/note='To pmo; TakaRa, D504 CA)
/note='To pmo; T
         Institute of Medical Science. University of Tokyo
4-6-1, Shirokanedal, Minatoku, Tokyo 108-8639, Japan
Emali, sysuzukilans u-tokyo ac jp
Suzuki,Y., Yoshitomo-Nakajava,K., Maruyama,K., Suyama,A. and Sugano
,S. Construction and characterization of a full length-enritched and
a 5'-ond-enriched CDMA library. Gene 200 (1-2), 149-156 (1997).
Location/Onalifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SO bp mRNA lincer EST 01-JUN-2000 EST00684 Plasmid Subtractive Library of Rat Cerebrum (stroke) Ratus norvegicus CDNA clone 3rdD5, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota: Métazoa; Chordata: Craniata; Vertebrata: Euteleostomi:
Hammalia: Eutheria: Rodentia: Sclurognathi: Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  F 1 (bases 1 to 50)

S 1 (bases 1 to 50)

S 1 (bases 1 to 50)

Condition of Genes Responsible for Stroke
Unpublished (2000)

Other_ESTS EST00720

Contact: Sin Labo
Molecular Medical Center for Cardiovascular Disease
Cardiovascular Institute, CAMS & PUNC
167 Ret Lis Shi Lu. 100037, Belling, P.R. China
Fax: 86-10-6831446 ext 8136
Fax: 86-10-6831430

Email: binzbooftonghua.com.cn
Seq primer: Mi3k
                                                                                                                                                                                                                                                                                                                  /organism-"Homo sapiens'
/db_xrei=_taxon.9606'
/db_xrei=_taxon.9606'
/clone=_luGil86''
/clone=_luGil86''
/note="Diferential display comparison of untreated and dimethyl@marate treated U937 cells'

a 7 cells'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone_lib+'Plasmid Subtractive Library of Rat Cerebrum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.8%; Score 15.4; DB 9; Length 50;
61.0%; Pred. No. 6.7e+05;
tive 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 ATAGTGACCCTCCTAACCCACACTCATTATCCCCACTCCA 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #9 ATCGAGACCAGTCTACCCAACACGAAACCCGTCTA 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Rattus norvegicus"
/Strain="Wistar"
/db_xref="taxon:16116"
/clone="3rdD5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AWS07256.1 GT:8133421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /sex-"male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 61.0 Matches 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Norway rat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 39
AW507256/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ritkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R. Williamson, A., Wohldmann, P. and Wilson, R.
The Washu-Werck EST Project
L. Unpublished (1955)
Contact: Mulson R.
Hashington University School of Medicine
Test: 314 286 180
Email: 826 180
Email: 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              50 bp mRNA linear EST 30-AUG-2001 LNG105911 Sugano Homo saptens cDNA Library Homo saptens cDNA clone LNG11861, mRNA sequence.
AU105911.1 GT:13555432 EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota, Metazoa, Chordata; Cranlata; vertebrata; Euteleostomi; Mammalia Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 5) Eukaryota; Mossa 1 to 5) Eukaryota; Homo. 2 Suzuki, Taira; Tannoda, T., Mizushima-Sugano, J., Sesn, J., Hata, Y., Makamusa, T., Suyama, A., and Sugano, S., Okubo, K., Sakaki, Y., Makamusa, Y., Suyama, A. and Sugano, S. Diverse (ranscriptional initiation revealed by fine, large-scale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / watch 12.8% Score 15.4; DB 14; Length 49;
Local Similarity 61.1% Pred. No. 6.6e+05.
res 2; Conservative 0; Mismarches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_rref="taxon:9606"
/clone="lwdg:345859"
/clone=llb-soares_fetal_heart_M6HH199"
/sex="unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              47 AGCTCTANCAGCCTTCCTCAAAAAGTCCGNNAAGCT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            59 AGGGTTCCAGCGTTCCTGAAATGATCGATTGGCT 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14 C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"Homo sapiens"
/db_xref-"GDB:1271234"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Yutaka Suzuki
Department of Virology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     დ
დ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo saplens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOURCE
ORGANISM
                                                                                            TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 38
AU105911/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
```

ò

a

```
/acx="Male"
//ab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
//ab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
//note="vector: PWD42nv; Purified genomic DNA from M
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.065 into crifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            electrophoresis vector DNA was prepared from a derivative of pMDA2 (gil473114)gibAF12907.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified the sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coli XL10 Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                            GSS 04-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                            A2456166 50 04-0CT-300
IM0258B20R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0228B20 R. DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa: Chordata: Craniata; Vertebrata: Euteleostomi: Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus. 1 (bases 1 to 50)

Dunn.D., Aoyagi.A., Barber.M., Beacorn.T., Duval.B., Hamil.C., Islam.H., Longacre.S., Mahmoud.M., Meenen.E., Pedersen.T., Reilly M. Rose, M., Rose, M., Stokes.R., Tingey.A., von Niederhausern.A. and Wright, D., Weiss.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone_lib-"Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                   26 CCACACCTCATTATCCCCACTCCAGAGGATTCAGGGGTTC 66
                                                                      43 CCGGACCTCATGAGCCAGAGCAAACTTTC 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 12.8%; Score 15.4; DB 17:
Best Local Similarity 66.7%; Pred. No. 6.7e+05;
Matches 22; Conservative 0; Mismatches 11:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dmail: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0258 row: B column: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Plate: 0258 row: B column: 20
Seg primer: CACACAGGAAACAGCTATGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Mus musculus"
/strain="C57BL/63"
/db_xref="taxon:10090"
/clone="UUGC1M0258B20"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    High quality sequence stop: 50.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                AZ456166.1 GI:10614291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                 A2456166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           84112,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE CCUNT
                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
                                                                                                                                                                                                          RESULT 41
                                                                                                                                                                                                                                                     AZ456166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /casa-"mater"-Cerebrum"
//dev_stage="8-12 weeks old"
//dev_stage="8-12 wee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        50 bp mRNA linear EST 01-JUN-2000 EST00720 Plasmid Subtractive Library of Rat Cerebrum (stroke) Rattus norvegicus cDNA clone 3rdc4, mRNA sequence. AN507292 AN507292.1 GI:8133457
constructed by Zhao Bin and Wang Xianmei using pWD18-T vector. Randomly picked clones were sequenced at ABI 377 using M13R primer[AGCGGARAACAATTCACACAGG) by Wang Xianmei Zhao Bin and Zhang Qian.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Rodentla; Sclurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:10116"
/clone="3rdC4"
/clone_lib="Plasmid Subtractive Library of Rat Cerebrum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                   0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 50)
2 thao, B., Mang, A., Zhang, Q., Zhu, Z.M., Zhu, S.J. and Hul, R.T.
2 thao, B., Wang, X.M., Zhang, Q., Zhu, Z.M., Z.M., S.J. and Hul, R.T.
Cloning of Genes Responsible for Stroke
Unpublished (2000)
0 ther_ESTS: EST00684
Contact: Bin Zhao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
0
                                                                                                                                                                                                                                             Query Match 12.8%; Score 15.4; DB 10; Length 50; Best Local Similarity 61.0%; Pred. No. 6.7e+05; Matches 25; Conservative 0; Mismatches 16; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15.4; DB 10; Length 50;
Pred. No. 6.7e+05;
0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Molecular Medical Center for Cardiovascular Disease
Cardiovascular Institute, CAMS & PUNC
167, Bet Li Shi Lu, 100037, Beijing, P.R. China
Tel: 86-10-68313466 ext 8136
Fax: 86-10-6831339
                                                                                                                                                                                                                                                                                                                                                                                     26 CCACACCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTC 66
                                                                                                                                                                                                                                                                                                                                                                                                                            43 CCCGACCTCATGAGCCAGGCCCCAGGTAAGCAAACTITC 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Rattus norvegicus"
/strain="Wistar"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 12.8%;
Best Local Similarity 61.0%;
Matches 25; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /sex-"male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seq primer: M13R
POLYA-No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Norway rat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 40
AW507292/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                            BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
```

a

```
Another Control of the Control of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A2403233 45 bp DNA linear GSS 03-0CT-2000 IM0171G12F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0171G12 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                  Tumor Gene Index
Unpublished (1997)
Unpublished (1997)
Unpublished (1997)
Contact: Nobert Strausberg, Ph.D.
Contact: Nobert Strausberg, Ph.D.
Email: capabs-rémail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Email: capabs-rémail.nih.gov
Cibrary Arrayadaration: M. Bento Soares, Ph.D.
CNA Library Arrayada by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: WIC-GEAP clone distribution information can be
found through the I.M.A.G. E. ConsortumALLNL at:

www-bio.linl.gov/bbip/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota, Metasoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mamanija, Eutheria, Rodentia, Sclurognathi, Muridae, Murinae, Mus. 1 (bases 1 to 4)
Buna, D., Aoyagi, A., Barher, M., Boacorn, T., Ouval, B., Hanil, C., Islam, H., Longacre, S., Malmoud, M., Meehen, E., Pedersen, T., Reilly, M., Mees, M. Rose, H., Stokes, R., Stokes, R., Tingey, A., von Niederhausern, A. House whole genome scaffolding with paired end reads from 10kb
                                                                                                                                              Homo sapiens
Eukaryota: Metazoa: Chordata: Granlata: Vertebrata: Eutelcostomi:
Eukaryota: Metazoa: Chordata: Catarthini: Hominidae: Homo.
Mammalia: Eutheria: Primates: Catarthini: Hominidae: Homo.
I (bases 1 to 4)
MCI-Cases 1 to 4)
MCI-Cases I to 4)
MCI-Case I to://www.ncbi.nlm.nih.gov/ncicgap.
MRI-Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12.7%; Score 15.2; DB 9; Length 43; 71.4%; Pred. No. 7.3e+05; tive 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Trace considered overall poor quality
Insert Length: 733 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Cocation/Qualitiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism-'Homo sapiens'
/db_xrcf*taxon.9666
/db_xrcf*taxon.9668
/clone-'IMACE:1585025
/clone-lib-'NTI CGAP_Lub'
/tissue-type-'carclnoid'
//ab_host-'nH108'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       85 TCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     40 TCCCTTGACTTGCCTGCTGACTTG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AZ403273.1 GI:10527274
AA948203
AA948203.1 GT:3109456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  focal Similarity 71.41 es 20: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A2403273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
                                                                                                              SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 44
AZ403273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                             AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                        43 bp nRNA linear EST 21.4FR-1958 ce71902.s1 MCI_CGAP_LUS HOTO saplens CDNA clone IMAGE:1417394 31 similar to SH-ASHI_MUNAN PSOS53 ACHAETE.SCUTE HOMOLOG 1. .contains ANSO12.9 GENERAL TRI repetitive element :, mRNA sequence.
ANSO12.9 GI:3039372 EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Another Cogan Ling; Vector: pT7130-Pac (Pharmacia) with a modified polylinker; Ist strand cDMA was prepared from modified polylinker; Ist strand cDMA was prepared from neuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDMA was liqued to Eco R1 adaptors: Pharmacia, digested with Not I and cloned into the Not I and Eco R1 sites of the modified pT713 vector. Library is normalized, Library was constructed by Bento Soares and M. Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONA Library Preparation: N. Bento Soares. Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clove distribution: NGT-CGRP clone distribution information can be
found through the I.M.A. G.E. Consortium/LML at:
www-bio.llnl.gov/bbrp/image/Image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA948203
43 bp mRNA linear EST 07-JUC-1998 op99509.31 MCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1585025 3' similar to SW:ASH1_HUNAN P50553 ACHAETE-SCUTE HOMOLOG 1. :, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mambalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (base) 1 to 43)
11. (base) 1 to 43)
12. (CAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Uppublished (1997)
Contact: Robert Strausberg, Ph.D.
Emall: cgapbs-femal.nih.gov
Tissue Procuremen: Christopher Hoskaluk, H.D., Ph.D., Michael R.
Emmert-Buck, H.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12.7%; Score 15.2; DB 9; Length 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Trace considered overall poor quality insert Length: 766 Std Error: 0.00 Seq primer: -40ml3 fwd. ET from Amersham High quality sequence stop: 1. Location/Qualitiers
                                         Query Match 12.7%; Score 13.2; Do Best Local Similarity 71.4%; Pred. No. 7.3e+(Matches 20; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism-"Homo sapiens"
//db_ref-taxon.9606"
/clone="1MAGE:1417394"
/clone=1lb=NCI CGAP_Lus"
/tissue_type="carcinoid"
//ab_host="pup"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    85 TCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sedneuce.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 43
AA948203/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                        RESULT 42
AA904249/c
                                                                                                                                                                                                                                                                                             LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
```

ठ

```
/organism="Arabidopsis thaliana"
//strain="Columbia 0"
//strain="Columbia 0"
//db_xref="taxon:3702"
//clone_"ib="Arabidopsis thaliana T-DNA insertion lines"
//clone_"ib="Arabidopsis thaliana T-DNA insertion lines"
//cole="PCR was performed on DNA from Arabidopsis thaliana
plants (T1) which were transformed with the T-DNA from
vector pACLio. The lines contain one or more T-DNA
insertions. The DNA fragment(s) resulting from the PCR
were directly sequenced to determine the genomic sequence
flanking the insertion. Sequences alsplaying significant
similarity to the A. thalaina nuclear genome sequence
processed for submission. T-DNA derived sequences were
                                                                                                                                                                                        Strizbow, N. Rosso, M., Li, Y. and Weisshaar, B.

Strizbow, N., Rosso, M., Li, Y. and Weisshaar, B.

Direct Submission

L. Submitted (17-JUN-2002) Weisshaar B., Max-Planck-Institut fuer

Indicates an insertion within the locus defined by clone Fl4K14.

The sequences are generated at the MPI for Plant Breeding Research

In the context of the GABI-Kat project. GABI-Kat is part of the

German Plant Genomics program designated 'GABI'. Information on

line availability can be found at:

http://www.mpiz.koeln.mpg.de/GABI-Kat/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tumor Gene Index
Onpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Mashington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              defigious NCI_CGAP_Lu5 Homo sapiens CDMA clone IMAGE:1415642 3' similar to SW:ASH1_HUMAN PS0553 ACHAETE-SCUTE HOMOLOG 1. ; contains clement LTRA repetitive element :, mRNA sequence.

AA826579 AA826579.1 GI:2898406
                                                               Rosso, M., Strizhov, N., Li, Y., Reiss, B., Dekker, K. and Weisshaar, B. A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat) for flanking sequence tag based reverse genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota: Hetazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Mammalia: Eutheria: Primates: Catarrhin: Hominidae: Homo.

I (bases I to 6)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Match 12.7%; Score 15.2; UB 17; Length 45;
Local Similarity 71.4%; Pred. No. 7.4e+05;
Les 20; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13 C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        91 GCCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    36 GGATTCGATAGCTAATGAAGTTGAGTCT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 c
      transformed lines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo saptens
                            Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                  JOURNAL
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA826579/c
                                                                                         AUTHORS
                                                                                                                                                                                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                              COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /ctome_liber_mouse luke plasmid uncilm libiary.
/ctome_liber_mouse luke plasmid uncilm libiary.
/lab_host="E. Coli strain XII0-Gold, TI-resistant, F-"
/lab_host="E. Coli strain XII0-Gold, TI-resistant, F-"
/musculus G578L/50 (male) was obtained from the Jackson
laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide Kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pwid (gil4/32114) [ap/RR129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coll XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
                                                                                                                                               5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AL758605 45 bp DNA linear GSS 18-JUN-2002 Arabidopsis thaliana T-DNA flanking sequence GK-160D11-013216,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Arabidopsis thaliana
Bukaryota: Viridiplantae: Streptophyta; Embryophyta: Tracheophyta;
Spermatophyta: Magonoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bidg., 20 S. 2030 E., SLC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Strizhov, N., Li, Y., Rosso, M., Viehoever, P., Dekker, K., Saedler, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A pipeline for automated high-throughput generation of FSTs (flanking sequence tags) from Arabidopsis thaliana T-DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. 45
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/db_xref="taxon:10090"
/clone=_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.7%; Score 15.2; DB 17; Length 45; 63.9%; Pred. No. 7.4e+05; tive 0; Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tel: 801 585 5606
Fear: 801 585 7177
Enail: ddunnégenetics.utah.edu
Insert Length: 10000 5td Error: 0.00
Plate: 017 row: G column: 12
Seq primer: CGTTGTTAAAACGACGGCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                 High quality sequence stop: 45. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      genomic survey sequence.
AL758605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AL758605.1 GI:21496953
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 63.9
23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     thale cress.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AL758605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local
Matches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 45
AL758605/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

```
48 bp DNA linear GSS 18-JUN-2002 genomic survey sequence GK-026F02-013727, AL762625 GT:21509033
                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AL656975 ACC:neurula Silurana tropicalis CDNA clone TNeu033K22 5',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /dev_srage-"ncurula"
/lab_host="Escheritals coll DH1DB"
/lab_host="Escheritals coll DH1DB"
/note="Vector: pCS107: Site_1: EcoRI; Site_2: Mot1: CDMA was oligo dT primed from Sug of poly A+ RNA from neurula.
EcoRI: Mot1 cut CDMA was then ligated into pCS107 with EcoRI at the 5' end and NotI at the 3' end."

7 c 10 g 17 t.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Silurana tropicalis
Pukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibas: Battachia: Anno: Mesobatrachia; Pipoidea: Pipidae:
Xenopodiae: Silurana.
1 (bases 1 to 48)
Huckle E. Taylor, R. Ashurst., J.L., Zorn, A. M. and Rogers. J.
Sanger Kanopus tropicalis EST project 2001 (10_2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sanger Xeropus tropicalis EST project 2001
THOPICALIS_STOURNE_ID: TNew033k22.sp6
Sequencing primer. SP6
This sequence is from a Xenopus Gene Collection (XGC) library
constructed by Aaron M. Zorn.
Location/Qualifiers
1. 48
                                                                                                                                                                                                   ch
1 Similarity 63:94: Pred. No. 7.5e+05.
22: Conservative 0: Hismatches 13: Indels 0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0: Gaps
cells non-induced (treated with DMSO only). If a -12\ {\rm c} -10\ {\rm a}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12.7%; Score 15.2; DB 9; Length 48; 71.4%; Pred. No. 7.6e+05; tive 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                          3) CCTCATTATCCCCACTCCAGAGGGATTCACGGGTC 66
                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Silurana tropicalis"
/db_xref="taxon:8164"
/clone="Theu033422"
/clone_lib="XGC-neurula"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hinxton, Cambridgeshire, CB10 1SA, UK
Email: trop@sanger.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53 GGATTCAGGGGTTCCAGCGTTCCTGAAA 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mRNA sequence.
AL656975
AL656975.1 GI:17669540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WRCE thale cress.
ORGANISM Arabidopsis thallana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         western clawed frog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 12.7%
Best Local Similarity 71.4%
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unpublished (2001)
Contact: Huckle E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sanger Centre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EST.
                                                                                                                                                                                                        Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 49
AL762625/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 48
AL656975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HUTH Dest. dnc15.final.cluster.121_(2) DKC15 Homo sapiens cDKA similar to ribosomal protein S27, mRNA sequence. AMOS9631
AMOS9631.1 GI:6651953
EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Monte-"Organ: lung: Vector: pT773D-Pac (Pharmacia) with a modified polylinker: 1st strand cDNA was prepared from neuroendocrine lung carcinoid, and was then primed with Not I = 0.1490(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not. I and cloned into the Not I and Eco RI sites of the modified pT713 vector. Library is normalized. Library was for some proper of the processive and Normacial Sources and Normacial S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota, Metazoa, Chordata; Craniata, Vertebrata; Euteleostomi; Mammalla, Eutherla; Primates; Catarrhini; Rominidae; Homo.
1 (bass 1 to 47)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /cell_line="ThP-1 (TB-202)"
/cell_line="ThP-1 (TB-202)"
/note="Vector: pCR.1; Cloning of PCR products from micro-beads carrying 3' end of down-regulated CDNA. THP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LIMAT Therapeutics, Inc.
1586.1 Industrial Blvd., Hayward, CA 94545. USA
1586.1 Industrial Blvd., Hayward, CA 94545. USA
Fax: $10 670 9318
Sequence obtained from LYRN Therapeutics Megasort technology.
Collected from the down-regulated gate. Consensus sequence of 2
sequences in cluster.
India quality sequence stop: 47.
India parally sequence stop: 47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 12.7%: Score 15.2; DB 9; Length 46; Best Local Similarity 71.4%; Pred. No. 7.5e+05; Matches 20; Conservative 0; Mismatches 8; Indels
                                        found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                 Trace considered overall poor quality Seq prime: -40m3 fwd. FT from Amersham High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
//D_xef="taxon:5606"
/clone="itaxos:1416642"
/clone=lib="ACI CGAP_Lus"
/tissue_type="carcinoid"
/lab_bost="bpli08"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                85 TCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="DNC15"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   43 TCGCTTGACTTCCTTGGCCCTGACTTG 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Burcham TS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 47
AW059631/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
```

```
/Organism="Homo sapiens"
/Organism="Homo sapiens"
/Organism="Intace:185379"
/Clone=11b="NCI_CGAP_LUS"
/Clone=11b="NCI_CGAP_LUS"
/Lissue_Lype="carcinoid"
/lab_host="DH108"
/note="Organ: Lung: Vector: pT773D-Pac (Pharmacia) with a noteroendocrine lung: Vector: p773D-Pac (Pharmacia) with a modified polylinker: lst strand cDNA was prepared from neuroendocrine lung: vectorioid, and was then primed with a NOL I - 0.100 off) primer. Double-stranded cDNA was ligated cloned into the Not I and Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p7773 vector. Library is normalized Library was constructed by Bento Soares and M. Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Department of Virology
Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzukielms.u-tokyo.ac.jp
Suzuki.Y., Yoshitomo-bakagawa.K., Maruyama.K., Suyama.A. and Sugano
Suzuki.Y., Yoshitomo-bakagawa.K., Maruyama.K., Suyama.A. and Sugano
Suzuki.Y., Yoshitomo-bakagawa.K., Maruyama.K., Suyama.A. and Sugano
Suzuki.Y., Yoshitomo-bakagawa.K., Gene 200 (1-2), 149-156 (1997).

Location/Qualifiers
                    Denail: cgapgar-femail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
EDMA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Mashington University Genome Sequencing Center
Clone distribution: NIT-CGAP clone distribution information can be
www-bio.llni.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AU106947 50 bp mRNA linear EST 30-AUG-2001
AU106947 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
ZRV6C565, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , Hata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LUKATYOTA: Hetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (Dases in to 50)
2 (Dases in taira H. Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hat. H., Ota, T. Isogal, T. Tanaka, T., Horishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
M., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
ENBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 12.7%; Score 15.2; DB 9; Length 49; Best Local Similarity 71.4%; Pred. No. 7.7e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                       Trace considered overall poor quality Insert Length, 733 Std Error: 0.00 Seg primer: -40ml3 fwd. Er from Amersham High quality sequence stop: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  85 TCGATTGGCTTCCATAGCTGCTGAATTG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46 TCCCTTGACTTGCGCCCTGACTTG 19
Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AU105947.1 GI:13556468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 51
AU106947/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
   COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Arabidopsis thaliana"
/Strain="Columbia 0"
/Strain="Columbia 0"
/db_xref="taxon:3702"
/db_xref="taxon:3702"
/clone="GK 026602-013727"
/clone="Ib="Arabidopsis thaliana T-DNA insertion lines"
//clone="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pAC106. The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. Sequences flanking the insertion. Sequences flanking significant similarity to the A. thalaina nuclear genome sequence were processed for submission. T-DNA derived sequences were
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Direct Submission
Submitted (17-10N-2002) Weisshaar B., Max-Planck-Institut fuer
Submitted (17-10N-2002) Weisshaar B., Max-Planck-Institut fuer
Zuechtungsforschung, Carl-voor-Linne-Weg 10, Koeln, 50829, Germany
This sequence is recovered from the left border of the T-DNA. It
indicates an insertion close to or within gene At19,2970. The
sequences are generated at the MPI for Plant Breeding Research in
the context of the GABI-Kat project. GABI-Kat is part of the German
Plant Genomics program designated 'GABI' Information on line
availability can be found at:
tocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA976736 10-JUL-1998
aq06f10.3 NCI_CGAP_LUS Home sapiens cDNA close IMAGE:1585579 3'
similar to SW:ASHL_HUMAN P50553 ACHARTE-SCUIE HOMOLOG 1.; contains
element TAR1 repetitive element ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                Rosso, M., Strizhov, N., Li, Y., Reiss, B., Dekker, K. and Weisshaar, B.
A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat)
for flanking sequence tag based reverse genetics
   Eukaryota; Viridiplantae; Streptophyla; Embryophyta; Tracheophyta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota: Metazoa: Chordata: Cranlata: Vertebrata: Eutelcostomi: Mammalla: Euthoria: Primates: Catarrhini; Hominidae; Homo. 1 (bases 1 to 49) MCT-CGAP http://www.ncbi.nlm.nlh.gov/ncicgap. Mational Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                              Strizhov, N., Li, Y., Rosso, M., Vlehoever, P., Dekker, K., Saedler, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                          Spermatophyta; Magnollophyta; eudicotyledons: core eudicots;
Rosidae: eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                               and Weisshaar,B.
A pipeline for automated high-throughput generation of FE (Islanking sequence tags) from Arabidopsis thaliana T-DNA transformed lines Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12.7%; Score 15.2; DB 17; Length 48; 63.9%; Pred. No. 7.6e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                            3 (bases 1 to 48)
Rosso, M., Strizhov, N., Li, Y. and Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 GATGCCATAGTGACCCTCCTAACCCACACCTCATTA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36 GATCCCATAGCACTCTTCATCAACCACAAAATA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA976736
AA976736.1 GI:3154182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             removed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 50
AA976736/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                              JOURNAL
REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
```

à a

```
A2307590 S0 bp DNA linear GSS 29-SFP-2000 IM0099NIOR House lokb plasmid UUGCIM library Mus musculus genomic clone UUGCIM009NIO R. DNA sequence.
                                                                                                                                                                                                                                                                                                                           Contact: Yutaka Suzuki
Contact: Yutaka Suzuki
Department of Wincids
Institute of Medical Science. University of Tokyo
Institute of Medical Science. University of Tokyo
Institute of Medical Science. Winstoryo 108-8639, Japan
Email: ysuzukifikins urtokyo ac. jp
Suzuki, Y. Yoshitomo Hakagava K. Haruyama, K. Suyama, A. and Sugano
S. Construction and characterization of a full length enriched and
a S'end-enriched cuha library. Gene 200 (1-2), 149-156 (1997).

I. Son Location/Oualifiers
                                              Homo sapiens
Eukaryota: Netazoa; Chordata: Craniata: Vertebrata: Euteleostomi.
Nammalia: Eutheria: Primates; Catarrini: Hominidae: Homo.

(basea: 1 to 50)
Suzuki.Y. Taira.H. Tsunoda.T. Mirushima-Sugano.J. Sese.J. Hata.H. Ota.T., Isogai.T. Tanaka.T. Morishitas.S., Okubo.K., Sakai.
Y. Nakamura.Y. Suyama.A. and Sugano.S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC. UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota: Metazoa: Churdata: Craniata: Vertebrata; Euteleostomi: Mamalia: Euthoria: Rodentia: Sciurognathi: Moridae: Nurinae: Mus. 1 (bases 1 to 50)
Dunn.b. Aoyaqi.b. Barber.m. Recorn.T., Duval.B., Hamili.C.
Islam.H. Longate.S., Hahmoud.H., Meenen.E., Pedersen.T., Retlly
H., Rose.H., Rose.R., Stokes.R., Tingey.A., von Niederhausern.A.
and Wright.D. Weiss.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /dD_are. v.....
/clone="HEP17801"
/clone_lib="Sugano Homo sapiens cDMA library"
/note="Differential display comparison of untreated and
dimethyliumarate treated U937 cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12.7%; Score 15.2; DB 9; Length 50; 71.4%; Pred. No. 7.8e+05; tive 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dmail: ddunnfgenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0069 row: N column: 10
Seg primer: CARAKAGAMACATTGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism-"Homo sapiens'
/db_xref-"taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47 CCAGAGGATTCAGGGGTTCCAGGGTTC 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert B. Welss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A2307590.1 G1:10346742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         plasmid inserts
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 71.41
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                  SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                               JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 54
A2307590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
      KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human:
Homo saptens
Eduaryota: Metazoa: Chordata: Craniata: Vertobrata: Euteleostomi;
Homosala: Eutherla: Primates: Catarthini: Hominidae: Homo.
Homosala: Eutherla: Primates: Catarthini: Hominidae: Homo.
Hoses I to 50)
Suzuki, T. Taiza, M., Tsunoda, T., Mizushima-Suqano, J., Sese, J., Hata
J., Ota, T., Taiza, M., Tsunoda, T., Mizushima-Suqano, J., Sese, J., Hata
J., Nakamura, Y., Suyama, A. and Sigano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
PHEO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Yutaka Suzuki
Contact: Yutaka Suzuki
Department of Vicology
Institute of Medical Science, University of Tokyo
4-6-1. Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Bnali: yazukieims. urokyo.ac. jp
Suzuki-Yi. Yoshitomo-Nakagawa.K., Moruyama,K., Suyama,A. and Sugano
'S. Construction and characterization of a full length-enriched and
a S'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AU107687 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone AU107687 Sugano Homo sapiens CDNA clone HEP17801, mRNA sequence.
AU107687 GT:13557208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AU107595 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone HEP02316, mRNA sequence.
AU107595 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone HEP02316, mRNA sequence.
AU107595 GI:13557116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Homo saplens"
/db_xref="taxon:9606"
/db_xref="taxon:9606"
/dlone="lone="tay6655"
/clone="lone="tay6555"
/note="biferential display comparison of untreated and dimethyldinarate treated U937 cells"
a 14 c 16 g 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match

12.7%; Score 15.2; DB 9; Length 50;

Best Local Similarity 71.4%; Pred. No. 7.78e+05;

Matches 70; Conservative 0; Mismatches 8; Indels 0; Gaps
                                                                                                                                                                                                                                ch 12.7%; Score 15.2; DB 9; Length 50; 1 Similarity 59.1%; Pred. No. 7.8e+05; 26; Conservative 0; Mismatches 18; Indels
                                                                                                                                                                                                                                                                                                                                    66 CCAGCGTTCCTGAAATGATCGATTGGCTTCCATAGCTGCTGAA 109
                                                                                                                                                                                                                                                                                                                                                                50 CCAACGCTGCTGCACACACGAGGGTTAAAATGGGGCCGCA 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism-"Homo sapiens"
/db_xref-"taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 TCGATGCCATAGTGACCCTCCTAACCCA 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29 TCGAAGCCAGAGTGACCCTGAAAGCAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human.
                                                                                                                                                                                                                                   Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 52
AU107595/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESS TON
VERS TON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 53
AU107687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
DRIGIN
                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
```

Page 26

```
(http://www.jax.com/necources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were 11gared to the blunt end sin high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarcse gel electrophoresis. Vector DNA was prepared from a derivative of pwm042 (gil47321141gblAF129072.1), a copy-number ligated inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SM Mus musculus

Eukaryots Metazoa: Chordata: Craniata; Vertebrata; Euteleostomi:
Eukaryots Metazoa: Chordata: Craniata; Vertebrata; Euteleostomi:
Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae; Mus.

El (Bases 1 to 33)

SD Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duvai,B., Hamil.C.,
Islam,H., Longacre,S., Hahmoud,M., Meenen,E., Pedersen,T., Reilly,H., Rose,M., Rose,M., Tingey,A., von Niederhausern,A.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

AL Unpublished (2000)

Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah Genome Center
University of Utah Antonnare Basebarch Rida., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                          A2636460 33 bp DNA linear GSS 13-DEC-2000 1M0495M14F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0495M14 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone_lib="Mouse loxb plasmid UUGCIM library"
/sex="Male"
/lab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
/lab_hostor: PWD42nv; Purified genomic DNA from M.
musculus G57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
Site_2: Not1: Cloned unidirectionally. Primer: Oligo Average insert size 1.1 kb. Life Technologies catalog 10982-015" 1 2 t 1 others
                                                                                                                                                                                        Gaps
                                                                                                                                                                                        ö
                                                                                                                                                      .6e+05;
                                                                                                                                         Length 25;
                                                                                                                                      Query Match 12.5%; Score 15; DB 9; Best Local Similarity 75.0%; Pred. No. 6.6e+05; Matches 18; Conservative 0; Mismatches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: ddunn@genetics.utah.edu
Insert Lenghh: 10000 Std Error: 0.00
Plate: 0495 row: M column: 14
Seq primer: CGTTGTAAAACGACGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .33
/organism-*Mus musculus*
/strain-*C57BL/6J*
/db_xrcf-*taxon:10090*
/clone-*UUGC1M0495M14*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Class: plasmid ends
High quality sequence stop: 33.
Location/Qualifiers
                                                                                                                                                                                                                                 25 CCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                           25 CCCACCCCNCTTTTCCCCCCACC 2
                                                                   17 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AZ636460.1 GI:11758650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    84112, USA
TE1: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                A2636460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           source
                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                 RESULT 56
AZ636460/c
                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOURCE
                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                             AA908637 25 Dp mRNA 11near EST 13-APR-1998 og86f07.s1 NCL_CGAP_OV8 Home sapiens cDNA clone IMAGE:1455205 3' similar to TR:099495 O99495 DRPLA PROFEIN. :, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chordata, Craniata, Vertebrata; Euteleostomi, Bukamalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 25)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note="Organ: ovary; Vector: pCMV-SPORT4; Site_1: Sal1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                      /organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="texton:10090"
/clone="UuGIM0009N10"
/clone="UuGIM0009N10"
/clone="Ilb="Mouse 10kb plasmid UuGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 12.74; Score 15.2; DB 17; Length 50; Best Local Similarity 63.9%; Pred. No. 7.8e+05; Matches 23; Conservative 0; Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. .25
/organism="Homo sapiens"
/db_xref="taxon: 9606"
/clone="IMAGE:1455205"
/clone="IMAGE:1455205"
/clone="IMAGE:1455205"
/clone="IMAGE:1455205"
/clone="IMAGE:1455205"
/clone="IMAGE:1455205"
/clone="IMAGE:1455205"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           49 AGAGGGATTCAGGGCTTCCAGCGTTCCTGAAATGA 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert Strausberg, Ph.D.
Emall: GapbS: refmall nih gov
unknown library type
Trace considered overall poor quality
Seq primer: "Ofml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
     High quality sequence stop: 5
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA908637.1 GI:3048042
                                                                                                                                                                                        /sex="Male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 55
AA908637/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
```

QQ

```
house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 58
A2659063/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                               BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /sex-Male.
//sex-Male.
//sex-M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
University of Utah
Rm. 308 Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS AZ380286 34 bp DNA linear GSS 02-OCT-2000 DEFINITION IM0136E12F Mouse 10kb plasmid UUGCIM 11brary Mus musculus genomic clone UUGCIM0136E12 F, DNA sequence.
ACCESSION AZ380286
AZ380286.1 GI:10493986
adaptored vector DNA, and transformed into chemically-competent E. coli XLI0-Gold (Stratagene) cells and selected for ampicillin resistance. " of 1.9\, 7 \,^{\circ} t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mamania ita Eutheria; Rodentia; Sciurcognathi; Huridae; Murinae; Mus. 1 (basea 1 to 34)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, M., Longacres, M., Manoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Stokes, R., Tingey, A., von Nicderhausern, A., Mouse Whole genome scaffolding with paired end reads from lokb plannid, inserial, inserial.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref-"taxon:10090"
/clone="UUGCIM0136E12"
/clone_llb-"Mouse 10%b plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                Ouery March 12.5%: Score 15; DB 17; Length 33; Best Local Similarity 67.7%; Pred. No. 7.54-05; Marches 21; Conservative 0; Nismarches 10; Indels Marches 10; Libert Aliches 10; Libert A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tel: 801 585 5606

Fax: 801 585 717

Fax: 801 585 717

Fax: 801 585 717

Fax: 801 585 717

Finate: 0136 Fow: E column: 12

Fax: plasmid ends

Class: plasmid ends

High quality sequence stop: 34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17 CETECTAACCEACACCTCATTATCCCCACTC 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3) CCCACTCATACACACCTTTCTACCCCCACCC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism-"Mus musculus"
/strain-"C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 57
AZ380286/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
```

```
// Jab. host-er construction and an arrange of property of passing occurs initiary / Jab. host-er coil strain X10-Gold, T1-resistant, F.*
// Jab. host-er coil strain X10-Gold, T1-resistant, F.*
// Anote-"Vector: Pub0420v; Putified genomic DNA from M. musculus C57Bx/6J (male) was obtained from the Jackson Laboratory Whose DNA Resources/documents/dnares/). The DNA was bydrodynamically sheared by repeated passage through a 0.05 luch orifice at constant velocity. The sheared DNA was Dunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was putified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis: Vector DNA was prepared from a derivative of pWD42 (qil473114 (ppl.RF129072.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was sunnealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A.Z659063
140535410F Wouse 10kb plasmid UUGCIM LIDTATY Mus musculus genomic
clone UUGCIM0536410 F. DNA Sequence.
A.Z659063 G. 111796209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
84:112, USA
                                                                                                                                                                                                                                                                                             ö
adaptored vector DNN. and transformed into chanically-competent E. coli Xil0-Gold (Stratagene) cells and selected for ampoililn resistance. ^{\circ} ( ^{\circ} 13 g ^{\circ} 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dukaryota: Metazoa: Chordata: Craniata; Vertebrata: Euteleostomi: Mamaila: Eutheria: Rodentia: Schurognathi: Muridae: Murinae: Mus. 1 (bases 1 to 36)
Dunn.b. Aoyagi.A. Barber, M. Beacorn,T., Duval.B., Hamil.C., 131am.H., Longacre,S., Mahmond,M., Menenen,E., Pedersen,T., Melily. M. Rose,M. Rose, R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D. Meiss,R.
                                                                                                                                                                                                                                                                                             0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /db_xref="texon:10090"
/clone="uuG/IM0536N10"
/clone_lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                                                 Ouery Match 12.5%; Score 15; DB 17; Length 34; BEST Local Similarity 67.7%; Pred. No. 7.56+76; Matches 21; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: ddunnigenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0536 row: N column: 10
                                                                                                                                                                                                                                                                                                                                                           7 CCATAGTGACCCTCCTAACCCACACCTCATT 37
                                                                                                                                                                                                                                                                                                                                                                                                        Plate: 0536 row: N column: 10
Seq primer: CGTTGTAAAACGACGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                High quality sequence stop: 36. (Acation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /strain-*C57BL/63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rel: 801 585 5606
Fax: 801 585 7177
```

ò a

```
46 bp mRNA linear EST 08-MAR-2000 wP81dlix1 NCI_CGAP_Brn25 Homo sapiens CDNA clone INAGE:2468181 3' similar to TR:081423 081423 T2H3.12 PROTEIN. [1] :, mRNA sequence. A1937592.1 GI:5676462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bonaldo, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. Sequencing DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution information can be found through the I.M.A.G.E. Consortium/LLML at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,
adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance. ^{\circ}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Hammalia: Eutherla: Primates: Catarrhini: Rominidae; Homo.
1 (bases i to 46)
NCI/NINDS-CGAP http://www.ncbi.nlm.nth.gov/ncicgap.
National Cancer Institute / National Institute of Newrological Discorders and Stroke, Brain Tumor Genome Anatomy Project Unpublished (1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                 ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.46
/db.xref-"taxon:9606"
/db.xref-"taxon:9606"
/clone="IMAGE:2468181"
/clone="IMAGE:2468181"
/tissue_type="anaplastic oligodendroglioma"
/lab_host="0H108"
                                                                                                                                                                                               Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12.5%; Score 15: DB 9; Length 46; 67.7%; Pred. No. 8.7e+05; ive 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                 10; Indels
                                                                                                                                                                                               DB 17;
                                                                                                                                                                                                                            Pred. No. 8.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Trace considered overall poor quality Insert Length: 702 Std Error: 0.00 Seq primer: 400P from Gloco High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                    Query Match 12.5%: Score 15; DB Sest Local Similarity 67.7%; Pred. No. 8.3e-Matches 21; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                               6 GCCATAGTGACCCTCCTAACCCACACCTCAT 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 12.5
Best Local Similarity 67.7
Matches 21: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 60
A1937592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
TITCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ELMANDIA:

ELMANDIA:

ELMANDIA:

ELMANDIA:

ELMANDIA:

MAMMALIA:

MAMMALIA:

MAMMALIA:

MANDIA:

MANDI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /ctone_nail= mouse love plasmid outlin libitity
/ctone_nail= flouts strain Killo-Gold Ti-resistant, F-
/lab_host= E. Coli strain Killo-Gold Ti-resistant, F-
/lab_host= Vector: Pubdiny: Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polymucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size selected for a 9.5 to
0.5 kb range using preparative agarces gel
electrophoresis. Vector DNA was prepared from a derivative
of pWDA2 (9i14732114|9b|AF129072.1), a copy.number ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A2309443
1M0013011R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0013011 R, DNA sequence.
                                                                                                                                                                                                                                                                     ö
       adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance. ^{*}
                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism-"Mus musculus"
/strain-"C57BL/63"
/db_xrefe"texon:10090"
/clone="UUGCIMO013011"
/clone="Lib="Mouse 10kb plasmid UUGCIM library"
                                                                                                                                                                                               Query Match 12.54; Score 15; DB 17; Length 36; Best Local Similarity 67.74; Pred. No. 7.8e+05; Matches 21; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: ddunn@genetics.utah.edu
Insert Lenghb: 10000 Std Error: 0.00
Plate: 0013 row: 0 column: 11
Seg primer: CACACAGBAAACAGCTATGACC
                                                                                                                                                                                                                                                                                                                                       74 CCTGAAAATGATCGATTGGCTTCCATAGCTG 104
                                                                                                                                                                                                                                                                                                                                                                        High quality sequence stop: 42. Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ309443
AZ309443.1 GI:10350430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 59
AZ309443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
```

õ

```
/Jam.host. E. Coll strain XIIO-Gold, Ti-resistant, F. (700cm.* Vector: Publizary Purified genomic DNA from M. musculus C57BL/6J (male) was Outsided from the Jackson. Laboratory House DNA Resource documents/dnares/). The DNA wish yield-yield from the Jackson. Laboratory House DNA Resource documents/dnares/). The DNA was hydrofynamically sheared by repeated passage through a 0.005 inch ortifice at uconstant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymorlectide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored bunk was purified and size-selected for a 9.5 to 10.5 k in in the build proparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwbol gillsylladighth/19072. J., a copy number of pwbol gillsylladighth/19072. J., a copy number of pwbol gel derivative of plasmid R1. The vector was ligated with adaptors complementary to the Insert adaptors and purified. The shaered, adaptored mouse DNA was anneated to adaptored vector DNA, and transformed into chemically competent E. coli XLIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                            1N056805/R House 10kb plasmid USGCIM library Mus musculus genomic clone UGCIMO568005 R. DNA sequence.
A2768567.1 GI:22897646
GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      University of Utah Genome Center
University of Utah Genome Center
University of Utah
Rm. 308. Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hus muscuius
Eukaryola: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
Eukaryola: Metazoa: Chordata: Sciurognathi; Muridae. Murinae: Mus.
1 (bases 1 to 47)
Dunn, D., Aoyaqı, A., Barber, M., Beacorn, T., Duval, B.,
Islam, M., Longacre, S., Mahmoud, M., Heenen, E., Pedersen, T., Reilly, M., Rose, M., Kose, R., Stokes, R., Tingey, A., von Miederhausern, A.,
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid insers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_ref="lexon:10090"
/clone="UUGC1M0568D05"
/clone_lib="Mouse 10%b plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query March 12.5%: Score 15: 08 17: Length 47: Best Local Similarity 78.3%: Pred. No. 8.84-07.8 Marches 18: Conservative 0: Mismatches 5: Indels Marches 18: Conservative 0: Mismatches 5: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Frror: 0.00
Plate: 0568 row: D column: 05
Seq primer: CACACAGCAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 47
Location/Qualifiers
                                                 33 TCATTATCCCCACTCCAGAGGGATTCAGGGG 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism-"Mus musculus"
/strain="C578L/63"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            house mouse.
                                                                                                                                                                                                                 RESULT 62
A2768567/C
                                                                                                                                                                                                                                                                                                               LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /stron="CSDBLOG"
/db_xref="Exaon:1009"
/clone=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||son=|ubc||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao||vocao
                                                                                                                                                                                                                            47 bp DNA linear GSS 13-DEC-2000 LINGS FOUR LINEAR GSS 13-DEC-2000 CLONE UUCCLNO367002 F, DNA sequence. A2579592 CT 11694021 GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah Genome Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  History and the state of the st
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 12.5%; Score 15: DB 17; Length 47; Best Local Similarity 57.7%; Pred: No. B.8e+05; Matches 21; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: ddunnegenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Flate: 0367 row: 0 column: 02
Seq primer: CGTGTANAACGACGCCAGT
Class: plasmid ends
Kigh quality sequence stop: 47.
Location/Qualifiers
     80 AATGATCGATTGGCTTCCATAGCTGCTGAAT 110
                                            1 [1] [1] [1] [1] [1] [1] [1] [1] [1] 2 AAATATCCTTTGGCCTCCACACAGGGGGGTGCAT 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genet1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16 a
                                                                                                                                                                                                                                                                                                         LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                 RESULT 61
A2579592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
```

ò

```
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 50)
Suzuki, Y., Talara, H., Tsunoda, T., Mizuahima-Sugano, J., Sese, J., Hata
Suzuki, Y., Talara, H., Tsunoda, T., Morishita, S., Okubo, K., Sakaki
, H., Ota, T., Isogama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Suyama,A. and Sugano,S.
Y., Makmura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sies
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Department of Virology
Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzukifims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
S. Construction and Characterization of a full length-enriched and
a 5'-end-enriched cDNA ilbrary. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                              Department of Virology
Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japen
6-6-1, Shirokanedai, Minatoku, Tokyo ac. Jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
7. Construction and characterization of a full length-enriched and
a 5.-end-enriched cDMA library. Gene 200 (1-2), 149-156 (1997).
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AU102413 50 bp mRNA linear EST 30.4UG-2001
AU102413 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
CAS09317, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Nominidae; Homo.
1 (bases 1 to 50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
/db_xref="taxon:9606"
/db_xref="taxon:9606"
/clone="CAS09317"
/clone=lib="Sugano Homo sapiens CDNA library"
/note="pifferential display comparison of untreated and dimethylfumarate treated U937 cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 12.5%; Score 15; DB 9; Length 50; Best Local Similarity 78.3%; Pred. No. 9e+05; Matches 18; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HRC07976"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           50 GGGAGGCAGAGGTTCCAGTGATC 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 52 GGGATTCAGGGGTTCCAGCGTTC 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AU102413.1 GI:13551933
                                                                                                                                                                                                                                          Contact: Yutaka Suzuki.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AU102413/c
Locus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                   MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AU102397 Sugano Homo Saptens CDNA library Homo sapiens CDNA clone AU102397, mRNA sequence.
AU102397 it:13551917
                                                                                                                                                                                          linear GSS 13-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                         Arabidopsis thaliana
Eukaryota: Viridiplantae: Streptophyta: Embryophyta: Tracheophyta:
Spermatophyta: Magnoliophyta; eudicotyledons: core eudicots:
Spermatophyta: Magnoliophyta; eudicotyledons: core eudicots:
Rosidae: eurosids II; Brassicales: Brassicaceae: Arabidopsis.
(bases 1 to 47)
Alonso,J.H., Lelsse,T.J., Barajas,P., Chen,H., Cheuk,R., Gadrinab,C., Jeske,A., Karnes,H., Kim,C.J., Parker,H., Prednis,L., Shinn,P., Zimmerman,J. and Ecker,J.R.,
A Sequence-Indexed Library of Insertion Mutations in the
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /db_xref-"taxon:3702.
//db_xref-"taxon:3702.
//clone="Salk 069476.34.50.n"
//clone="Salk 069476.34.50.n"
//clone="Ibb-"Arabidopsis thallana TDNA insertion lines"
//note-"PCR was performed on Arabidopsis thallana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used can
be found at http://signal.salk.edu/tdna_protocols.html*
5 c 10 9 16 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutoleostoml;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This is single pass sequence recovered from the left border of ALMA, This sequence lies within 300 bases of the 3' end of At4422150.
Class: TDNA tagged.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                              SALK_069476.34.50.n Arabidopsis thallana TDNA insertion lines
Arabidopsis thaliana genomic clone SALK_069476.34.50.n, DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Joseph R. Ecker Salk Institute Genomic Analysis Laboratory (SIGNAL) The Salk Institute for Biological Studies 2017. USA 10010 N. Torrey Pines Road, La Jolla, CA 92037, USA 11el: 858 453 4100 x1752 Fax: 858 558 6379 Email: eckerésalk.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 12.54; Score 15; DB 17; Length 47; Best Local Similarity 78.34; Pred. No. 8.8e+05; Matches 18; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Arabidopsis thallana"
/strain="Columbia 0"
                                                                                                                                                                                            DNA
                                                                                                                                                                                          47 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualiflers
1. .47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           73 TCCTGAAATGATCGATTGGCTT 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 TACTGAAATATTCAATCGCTT 26
                 60 GGGCTTCCAGCGTTCCTGAAAT 82
                                        24 GGTGTCTGCCTTCCTGAAGAT 2
                                                                                                                                                                                                                                                                                                 BH849286
BH849286.1 GI:21420157
                                                                                                                                                                                                                                                                                                                                                                           thale cress.
                                                                                                                                                                                            BH849286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 64
AU102397/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOURCE
                                                                                                                                                                                                                                                                                           ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
                                                                                                                                            RESULT 63
                                                                                                                                                                     вн849286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               qq
```

g

```
/sex-fremale*
//sex-fremale*
//otea-Vector: PubCarv: Purified genomic DNA from N.
//otea-Vector: PubCarv: Purified genomic DNA from N.
musculus C57BL/6J (female) vas obtained from the Jackson Labocatory Wouse DNA Resources / documents/dnares). The DNA vas hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA vas blunt end repaired with TA DNA polymerase and TA polymicleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The sheared DNA cas blunt ends in high molar excess. The sheared DNA cas blunt ends in high molar excess. The oligonucleotides were ligated to the blunt ends in high molar excess. The sheared DNA cas purified and size-selected for a 9.5 to along the stange using properative agarcase gall electrophoresis, Vector DNA was prepared from a derivative of prode (gil4732114) place). In a copy-number inducible derivative of plasmid RI. The vector was Ilgated with adaptored wector Mas and transformed linc of hemically completent E. coli XLI0-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION MAXABLEO. Scares mouse NPL Mus musculus cDNA clone INAGE:680371 5-
ACCESSION AAA28860. GI:1862241
KENNING CON AA38860. GI:1862241
                                                                                                                                                                                                               Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Hiomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
Dunn, D., Aoyagi, A., Barber, M., Reacorn, J., Duval, B., Hamil, C., Islam, H., Longacres, S., Hahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., Huuse whole genome scaffolding with paired end reads from 10kb plasmid inserted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE house mouse.
ORGANISM HUS musculus.
Eukaryota; Metazoa: Chordata; Cranista; Vertebrata; Euteleostomi;
Hammalla; Euther; Exterer.
REFERENCE I (Dases I to 40)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone-"uuGC2M0220822"
/clone_lib-"Mouse 10kb plasmid UUGC2M library"
/sex-"Female"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery March 12.34: Score 14.8: DB 17: Length 19:
Bost Local Similarity 88.94: Pred: No.6.88+05: 1
Marches 16: Conservative 0: Mismatches 2; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                   Email: ddundqenetics.utah.edu
Insert Length: 1000 Std Error: 0.00
Plate: 0220 row: B column: 22
Seq primer: CGTGTAAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              42 CCACTCCAGAGGGATTCA 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 CCACCCCAGAGCGATTCA 2
                                                                                                                                                                                         Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                   84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA238160/c
                  AUTHORS
                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEYWORDS
                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo saplens
Bukaryora: Netazoa: Chordata: Cranlata: Vertebrata; Euteleostomi.
Hommalia: Eutheria: Primates: Catarrhini; Hominidae: Homo.

(bases 1 to 50)
Suzuki, T. Talra, H., Tsunda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, T., Namaka, T., Nayama, A. and Sugano, S.

T. Nakamura, Y., Suyama, A. and Sugano, S.

Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1. Shrokamedal, Hinatoku, Tokyo 108-8639, Japan
4-6-1. Shrokamedal, Hinatoku, Tokyo 108-8639, Japan
Bmali, Yautukleimen, Leibko, ac. jh
Suzukli, Ya. 1954fume, Leibko, ac. jh
Suzukli, Ya. 1954fume, Leibko, ac. jh
Suzukli, Ya. 1954fume, Anangawa, K., Maruyama, K., Suyama, A. and Sugano
5. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDMA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                  50 bp mRNA linear EST 30-AUG-2001
AUI039901 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
AUI03901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A2954606
2M0220822F Mouse 10kb plasmid UUGC2M library Hus musculus genomic clone UUGC2M0220822 F, DNA sequence.
A2954606
A2954606.1 GI:13825833
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Wetazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mamalia; Eutheria, Rodentia; Sciurognathi; Muridae; Murinae: Hus.
11 (Dases i to 19)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism-"Homo sapiens"
/db_xref-taxon.9606
/clone_HEP05867*
/clone_Lib-Sugano Homo sapiens cDNA library*
/note-"bifferential display comparison of untreated and dimethyltumarate treated u937 cells*
14 c 10 9 18 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                               0: Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31 CCTCATTATCCCCACTCCAGAGGGATTCAGGGGTTCCAGCGTTCCTG 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 CITCAITITCIGICCIGAGIGAGICICIGGCGICCCAAAITGCCIG 50
                                                                                              Owery Match 12.5; Score 15; 08 9; Length 50; Best Local Smilarity 67.74, Pred, No 94-05; Matches 21; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Owery Match 12.55; Score 15; DB 9; Length 50; Best Local Similarity 57.48; Pred. No. 94-05; Matches 27; Conservative 0; Wismatches 20; Indels
              7 t
                                                                                                                                                                                                               67 CAGGGTTCCTGAAATGATGGTTGGCTTCC 97
                                                                                                                                                                                                                                                   50 CAGGATTCCTGACAGTGCTTGGCTGGGCTCC 20
              13 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AU103901.1 GI:13553422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Yutaka Suzuki
                  16 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         house mouse.
Mus musculus
                  14 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOURCE
              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                          LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 67
AZ954606/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                RESULT 66
AU103901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
```

ò đ

```
/ctome_lib_nowae_roup_pressure_contraction_rotate_lib_nowae_roup_pressure_contraction_rotate_rotate_rotate_nowae_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_rotate_r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA987350 43 bp mRNA linear EST 02-JUN-1998 or92f05.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603329 3' similar to TR:099322 Q99322 MUCIN CORE POLYPEPTIDE, TRACHEAL ;,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
    308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
Eukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi;
Hammalia: Eutheria: Primates; Catarrhini: Hominidae: Homo.
I (bases 1 to 4)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
NCI-CGAP fttp://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Robert Strausberg, Ph.D.
Email: cgapbs.rfmail.nih.gov
Email: sgaps.rfmail.nih.gov
Email: cgapbs.rfmail.nih.gov
Email: cgapbs.rfmail.nih.gov
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Mus musculus"
/strain="C57BL/63"
/db_xref="taxon:10090"
/clone="UGCJM0468A13"
/clone_lib="Mouse 10kb plasmid UGGIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 41:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ch
1. Similarity 64.7%; Pred. No. 9.5e+05;
22; Conservative 0; Mismatches 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           40 CCCCACTCCAGAGGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tel: 801 585 5606
Fax: 801 585 7177
Enail: ddunn@enetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0496 row: A column: 13
Seg primer: CGTYGTAAACGCGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                High quality sequence stop: 41. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA987350.1 GI:3172714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 22; Conserv
                                                USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CEMPS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 70
AA987350/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear GSS 13-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoc, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mustaryotes, Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi; Mammala; Euthoria: Rodentia: Sclurognathi; Muridae: Murinae: Mus. 1 (bases 1 to 41)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, H., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. Mouse Whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A2637132

41 bp DNA linear GSS 13-DEC-200
1M0496A13F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0496A13 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This clone is available royalty-free through LLNL; contact the IMMGE Consortium (info@image.linl.gov) for further information. MGI:420075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                      The WashD-HHMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashD-HHMI Mouse EST Project
WashD-HHMI Mouse EST Project
WashD-HHMI Mouse EST Project
WashD-HHMI Mouse EST Project
WashD-HMI WashD-HMI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; D8 9; Length 40;
Pred. No. 9.4e+05;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 1
Location/Qualifiers
1. 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /cromaism="Mus musculus"
/db_xref="taxon:10090"
/clone="itAdE:680371"
/clone=lib="Soares mouse NML"
/tissue_type="Liver"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: mouseest@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                103 TGCTGAATTGCAGTTTAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38 TGCTGAAGTGCAGTCTAG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Az637132
Az637132.1 GI:11759238
GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 12.3%;
Best Local Similarity 88.9%;
Matches 16; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                          TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 69
AZ637132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
```

ò a

```
//ove_nose_vorter
//ove_nose_vorter
//ove_nose_vorter
//ove_nose_vorter
//ove_nose_vorter
//ove_nose_vorter
//ove_nose_vorter
//ove_nose_vorter
//orter
//ove_nose_vorter
//orter
//ove_nose_vorter
//ove_nose_vor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BH890164
3 S26-Lil3_LG11.1EL_y_1 3526 . RescueMu Grid K Zea mays genomic, DNA scopionic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota: Viridipiantae: Streptophyta: Embryophyta; Tracheophyta;
Spermatophyta: Maynoliophyta: Liliopsida: Poales: Poaceae; PACC
clade: Panlcoideae: Andropogoneae; Zea.
1 (bases 1 to 47)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Maize genomic sequences found using engineered RescueMu transposon
Unpublished (2001)
Contact: Malbot V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Anote—Organ: leaf: Vector: RescueNu (engineered from pBlueScript backbone): Site; 18 BanHI: Site; 18 BalHI: RescueNui Sa 4,9 Nb. modified maize Nu transposon designed to allow plasmid rescue from total genomic DNA. Nu elements insert preferentially into transcription units. For more information on RescueNu, go to the web site 'www.amb.lasteae.edu' and follow the links for Rescuelu', Grid K was grown at Molokai, Hawaii in Minter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: walbordestandroid-dense. Very probable Ingation site of ends cut by single endonvolease. Reverse complemented post-ligation sequence from source sequence. Place: 3556_Llll cow: 12 foots. 12 foots.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ch 12.3%; Score 14.8; DB 9; Length 46; 15imilarity 59.5%; Pred. No. 1e+06; 17; Indels 57; Conservative 3; Mismatches 17; Indels 55; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 CCATAGTCACCCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 CAATCCTCACCACATACCACTCCACACTCACCCC 45
                      /organism-*Homo sapieus*
/organism-*Homo sapieus*
/db xref-t taxon:9606*
/clone-*HAGE:2012771*
/clone-llb-*NCI_CGAP_Brn23*
/tssue_type-*glioblastoma (pooled)*
/lab_host-*ball08*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 855 California Ave, Palo Alto, CA 94304, USA Tel: 650 723 2227
Fax: 650 725 8221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Department of Biological Sciences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             внв90364
внв90364.1 GI:22221301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Stanford University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zea mays.
Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BH890364
                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism-"Homo saplens'
/organism-"Homo saplens'
/organism-"Homo saplens'
/clone="IMARE:1603329'
/clone="IMARE:1605329'
/clone="IMARE:1605329'
/clone="IMARE:1605329'
/clone="IMARE:1605329'
/clone="IMARE:1605"
/clone="IMARE:16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46 bp mRNA linear EST 15-FEB-1999 syzaro6.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE: 2012771 34 shilar to TR: 006446 Q06446 EXTENSIN PRECURSOR ; contains MSR1.rl MSR1 repetitive element ; mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDNA Library Arrayed by: Greg Lennon, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
CDNA Sequencing by: Mashington University Genome Sequencing Center
Clore distribution: MCI-CGDP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLML at:
www-bio.llnl.gov/bbrp/image/lmage.html
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Mashington University Genome Sequencing Center
Clone distribution: NCT-CGAP clone distribution information can be
found through the I.A.A.G.E. Consortium/LLML at:
www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryotti Metazoa; Chordata; Craniata: Vertebrata: Euteleostomi; Hammalia: Eutheria; Primates; Catarrhini: Hominidac: Homo.

1 (bases 1 to 46)

NCI/NINSD-CGAP http://www.nci.nih.gov/ncigap.

MCI/NINSD-CGAP http://www.nci.nih.gov/ncigap.

MOISOIGER and Stroke, Brain Tumor Genome Anatomy Project

(CGAP/PRGAP), Tumor Gene Index

Unpublished (1998)

Contact: Robert Strausberg, Ph.D.

Email: Gapbs-Fremail.nih.gov

Tissue Procurement: David N. Louis, N.D., Myrna R. Rosenfeld M.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA Library Preparation: M. Bento Soares, Ph.D., M. Falima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 12.3%, Score 14.8; DB 9; Length 43; Best Local Similarity 73.1%, Pred. No. 9, 7+ev3. No. Matches 7; Indels Matches 19; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                           Trace considered overall poor quality
Seq primer: -40ml3 few. FT from Amersham
High quality sequence stop: 1.
Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Trace considered overall poor quality Insert Length: 577 Std Error: 0.00 Seq primer: -40UP from Gibco High quality sequence stop: 1. Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26 CCACACCTCATTATCCCCACTCCAGA 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A1356755.1 GI:4108376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bonaldo, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 71
A1356755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
```

ò 8

g

```
SOURCE
                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ELMARYOGE: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Harmalla; Entherla; Rodentla; Sclurognathi; Nuridae; Murlnae; Mus. E. 1 (bases 1 to 4).

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wryght, D., Walss, R.

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

L. Onpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center
University of Utah Genome Center
University of Utah Genome Center

Bair 308, Blomedical Polymers Research Bldg., 20 S. 2033 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymclectide kinase. Adaptor oligonuclectides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwM42 (gil4732114(pplAF129072.1), a copy-number inductable derivative of plasmid Rl. The vector was ligated with adaptors complementary to the insert adaptors and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AZ442808 44-OCT-2000 1MO237NOBF Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0237NOB F, DNA sequence.
                                                                                                                                                                                                                                                                      ö
2000-2001. DNA was extracted from leaf punches, double digested using BamHI and BglII, and ligated to form circular plasmids. BHIOB cells were transformed and then screened on LB plates with ampicillin."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /Organism="Mus musculus"
//db.xref="taxon:10090"
//db.xref="taxon:10090"
//clone="UUGCIM0237N08"
//clone=lib="Mouse 10kb plasmid UUGCIM library"
//sex="while"
//lab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
//note="Vector: FPM2ATAN; Purified genomic DNA from M:
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                        Match 12.3%; Score 14.8; DB 17; Length 47; Local Similarity 64.7%; Pred. No. 1e+06; hes 22; Conservative 0; Mismatches 12; Indels (
                                                                                                                                                                                                                                                                                                                                                           56 TTCAGGGGTTCCAGCGTTCCTGAAATGATGATGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tel: 801 585 5606
Fax: 801 585 7177
Email: ddundgenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0237 _row: N column: 08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plate: 0237 row: N column: 08
Seq primer: CGTfGTAAAACGCGGCAGT
Class: plasmid ends
High quality sequence stop: 48.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A2442808.1 GI:10590177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    house mouse.
                                                                                                                         12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rm. 30
84112,
                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOURCE
                                                                                                                                                                                                                                        Best Loca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ442808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMMENT
```

```
48 bp DNA linear GSS 13-DEC-2000 1MO461F1SF Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0461F1S F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts Unpublished (2000) Contact: Robert B. Weiss Contact: Robert B. Weiss University of utah Genome Center University of Utah Genome Research Bldg., 20 S. 2030 E., S.C., UT Rm. 30B, Blomedical Polymers Research Bldg., 20 S. 2030 E., S.C., UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a was hydrodynamically sheared by repeated passage through a bolos inch orifice at constant velocity. The sheared DNA was blunt end-repaired with 74 DNA polymerase and 74 polymotleotide kinase. Adaptor oligonocleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil47314)(gbl47129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XLIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa: Chordata; Cranlata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Rodentia: Sciurognathi; Muridae; Murinae; Mus. I (bases 1 to 48)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, H., Rose, M., Rose, M., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Welss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db_xref-"taxon:10090"
/clone='uucclMod61F15"
/clone='uucclMod61F15"
/sex-"hub="house 10kb plasmid UucclM library"
/sex-"hub="house 10kb plasmid UucclM library"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="vector: PMD47Nv; Purified genomic DNA from N.
musculus GS/BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                              Length 48;
                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                7 ;
                                                                                                                                                                                                           08 17;
                                                                                                                                                                                                           12.3%; Score 14.8; DB 173.1%; Pred. No. 1e+06; tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0461 row: F column: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Mus musculus"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Seq primer: CGTTGTAAAACGACGCCCAGT
                                                                                                                                                                                                                                                                                                                                   24 ACCCACACCTCATTATCCCCACTCCA 49
                                                                                                                                                                                                                                                                                                                                                                     13 ACCCATATCTCATATGACCCTCTCCA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               High quality sequence stop: 48.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AZ623464.1 GI:11745654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Class: plasmid ends
                                                                                                                                                                                                                                            Best Local Similarity 73.1
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         84112.
                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A2623464/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
```

ò 셤

```
AII85244 49 bp mRNA linear EST 29-OCT-1998 qe31a04.s1 Soares_fetal_lung_nNHL19W Homo saptens cDNA clone IMAGE.1740558 3. similar to TR.015089 015089 PUTATIVE P64 CLCP PROTEIN. [1] :, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         double-stranded CDMA was size selected, lighted to ECO RI adapters (Pharmacia), digested with Not 1 and cloned into the Not 1 and ECO RI sites of a modified pr773 vector (Pharmacia). Library went through one round of normalization to a Cot - 5. Library constructed by Bento Soares and M. Ratima Bonaldo. This library was constructed from the same fetus as the fetal heart library, Soares fetul heart NbH1gy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AU104948 Sugano Homo sapiens cDNA library Homo saplens cDNA clone HEP19427, mRNA sequence.
AU104948.1 GI:13554469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Onpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: capabs-remail.nh.gov
This clone is available royalty-free through LLNL: contact the
IMAGE Consortum (info@image.llni.gov) for further information.
Trace considered overall poor quality
Insert Length; 696 Std Error: 0.00
Seq primer: -40ml3 fwd Er from Amersham
High quality sequence stop: 1.
Localion/Qualifers
I. -49
// consortism*-Homo sapiens*
// contact conta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nouvo agrayopta Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia: Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 49)
MCJ-CGAP http://www.ncbi.nlm.nih.gov/nclcgap. Mallonal Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
Fukaryota; Wetazoa; Chordata; Cranlata; Vertebrata; Euteleostomi;
Homemalari Eutheria: Primates; Catarrhini; Mominidee; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12.31: Score 14.8: DB 9: Length 49:
64.74: Pred. No. 1e:06;
tive 0: Mismatches 12: Indels 0: Gaps
49 CCCAACTICCCCCACAATITCCACAACTICGIGGGGGTCAGG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    40 CCCCACTCCAGAGGGATTCAGGGGTTCCAGCGTT 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone-"IMAGE:1740558*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sest_Local Similarity 64.7%
datches 22; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Source
                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                  RESULT 76
A1185244/c
                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AU104948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VERSTON
    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Anocate-Organ: lung: Vector: p7773D-Pac (Pharmacia) with a modified polythner: lat strand cDNA was prepared from meuroendocrine lung carcinoid, and was then primed with a Not I oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p7773 vector. Library is normalized. Library was forner constructed by Bento Soares and M. Fatima Bonaldo.
    purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XLi0-Gold (Stratagene) cells and selected for amplitilin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CDNA Library Freparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon. Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the 1.M.A.G.E. Consortium/LINL at:
www-bbo.linl.gov/Dbry/Lnage/lnage/lnage/lnage.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A4928990

A4928990

A4928990

A72.CGAP_LU5 Homo sapiens cDNA clone IMAGE:1567420 3'

Similar to TR:008815 008815 PROTEIN KINASE.; mRNA sequence.

AA928990.1 GI:3078347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi; Mamailia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 49)

NCF.CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
Mational Cancer institute, Cancer Genome Anatomy Project (CGAP), Tumor Cone Index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                            0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Caps
                                                                                                                                                                                                                                  Match 12.3%; Score 14.8; DB 17; Length 48; Local Similarity 6.7%, Percel No. 12+06; Let 6: 12; Conservative 0; Mismatches 12; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
12.3%; Score 14.8; DB 9; Length 49;
Best Local Similarity 59.5%; Pred. No. 18+06;
Matches 25; Conservative 0; Mismatches 17; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Trace considered overall poor quality insert Length: 738 Std Error: 0.00 Seq primer: -40ml 3 Fwd. ET from Amersham High quality sequence stop: 1.
                                                                                                                                                                                                                                                                                                                                                                     /organism-"Homo saplens"
//D_xeef-taxon.9606"
/clone="14ACE:1567420"
/clone=lib-"NCI CGAP_Lus"
/tissue_type="carcinoid"
//ab_nost-"bnigs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo saptens
                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EST.
                                                                                                                                                                                                                                              Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                       BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 75
AA928990/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
```

```
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1. Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Bmall: ysuzukieims u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
S. Construction and characterization of a full length-entiched and
a 5'-end-entiched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Arabidopsis thaliana T-DNA flanking sequence GK-177C09-013534, genomic survey sequence.
AL771100
AL771100.1 GI:21533302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata, H., Oda,T., Isodai,T., Tadaka,T., Morishita,S., Okubo,K., Sakaki, Y., Nakamura,Y., Suyama,A. and Sugano,S. Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                     EST 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Arabidopsis thaliana
Bukaryota: Viridiplantae; Streptophyta; Embryophyta: Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brasslcales; Brassicaceae: Arabidopsis.
                                                                                                                                                                                                                                                             AUJ06343 Sugano Homo saplens CDNA library Homo saplens CDNA Clone
HED17992, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
Eukaryota; Hetazoa; Chordata; Cranlata; Vertebrata; Euteleostoml;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone="HEP17992"
/clone_llb="Sugano Homo sapiens CONA library"
/note="liferential display comparison of untreated and
dimethyliumarate treated U937 cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                        Gaps
                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12.3%; Score 14.8; DB 9; Length 50; 73.1%; Pred. No. le+06; ive 0; Mismatches 7; Indels
                                            9; Length 50;
                                                                                   17; Indels
                                                                                                                               22 TAACCCACACCTCATTATCCCCACTCCAGGGGATTCAGGGG 63
                                                                                                                                                        Score 14.8; DB Pred. No. 1e+06; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18 CTCCTAACCCACACCTCATTATCCCC 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 CITCTTACGCCCCCTCATTACCGG 35
                                                                                                                                                                                                                                                                                                                                                                           AU106343.1 GI:13555864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Yutaka Suzuki
                                         ch 12.3%;
1 Similarity 59.5%;
25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 73.1
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             thale cress.
                                         Query Match
Best Local Similarity
Matches 25; Conserv
                                                                                                                                                                                                                                                                                                                                                       AU106343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VEKSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 80
AL771100/c
                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                           RESULT 79
                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                               AU106343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                         qa
                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
    Suzuki,Y., Taira, H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata, H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki, H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Y., Makamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                  Contact: Yutaka Suzuki
Department of Yirology
Institute of Hedical Science, University of Tokyo
4-6-1. Shirokanedal, Minatoku, Tokyo 108-8639, Japan
Benali: ysuzukideins.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched CDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Department of Virology
Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
Institute of Medical Science, Tokyo 108-8639, Japan
Email: ysuzukilelim:u-tokyo,ac.jp
Suzuki.y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
'S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostoml; Mamailai: Butheria: Primates; Catarrhini; Hominidae; Homo.

1 (bases) 1 to 50)
Suzuki, T., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Oa, T., Isogai, T., Tanaka, T., Worishita, S., Okubo, K., Sakaki, Y., Nakamuta, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sices

EMBO REP. 2 (5), 188-193 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AU106265 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone KAIA4615, mRNA sequence.
AU106265 AU10555786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone_lib-*Sugano Homo sapiens cDNA library*
/note-*Differential display comparison of untreated and
dimethylfumarate treated U917 cells*
1 10 2 13 9 18 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 9; Length 50;
Pred. No. 1e+06;
0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74 CCTGAAATGATCGATTGGCTTCCATAGCTGCTG 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HEP19427"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.3%;
64.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21270072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCUS
DEFINITION
                                                                                                                        JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 78
AU106265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
REFERENCE
                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       윱
```

```
/sex-Wale*
//sex-Wale*
//sex-Wale*
//sex-Wale*
//sex-Wale*
//sector: Pupd2ny: Purified genomic DNA from N.
musculus C758L/63 (male) was obtained from the Jackson*
Laboratory Wouse DNA Resources/documents/danses/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerses and T4
polymer/conide kinase. Adaptor oligomerlectides were
1/gated to the blunt ends in high molar excess. The sheared DNA
was blunt ends repaired with T4 DNA polymerse and T4
polymer/conide kinase. Adaptor oligomerlectides were
1/stated to the blunt ends in high molar excess. The sheared DNA
as blunt ends repaired with T4 DNA polymerse and T4
polymer/conide kinase. Adaptor oligomerlectides were
1/stated to the blunt ends in high molar excess. The sector of partitied and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of phot/2 (di/4732114/gb/AF129072.1), a copy number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chantcally-completent E. coll XL10-Cold (Stratagene) cells
and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Hammalia: Eutheria: Primates: Catarrhini: Hominidee: Homo.

[ bases 1 to 39]
Hillier.L. Lennon.G., Becker.M., Bonaldo.M.F., Chlapelli, B., Hankins C., Dietrich, N. Debuger.T., Favello.A., Gish, W. Hawkins C. M., Hultman.M., Roeba.T., Lacy.M., Le.M., Le.M., Mardis.E., Moore S., Nortis, M., Parsons, J., Prange, C., Rifkin.L., Rohlfing.T., Soales, M.B., Tanh.F., Thierry Heg.J., Treveskis.E., Underwood, K., Woldmann.P., Waterston.R., Milson.B. and Marra.M. Gencration and analysis of 280,000 human expressed sequence tags
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N75691 PRAMA Linear EST 02-APR-1996 PY-52-801. I Weizmann Olfactory Epithellum Homo-sapiens cDNA clone IMAGE-25816 5' similar to gb:#35681 INTERFERON-INDUCED. DOUBLE-STRANDED RNA-ACIIVATED PROTEIN KINASE (HUMAN);, mRNA
    University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       _lib-*Mouse 10kb plasmid UUGCIM library*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 12.2%; Score 14.6; DB 17; Length 38; Best Local Similarity 81.0%; Prod. No. 1.1e+06; Matches 17; Conservative 0; Mismatches 4; Indels (
                                                                                                                                                                                    Email: ddunn@genetics.utah.edu
Insert.Length: 10000 Std Error: 0.00
Plate: 0264 row: G column: 19
Seg primer: COTTGTAAACGACGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism-"Mus musculus"
/strain-"C57BL/6J"
/db_xef="taxon:1090"
/clone="UUCC1N0264G19"
/clone_lib-"Mouse 10kb plas
                                                                                                                                                                                                                                                                                                                                                                    High quality sequence stop: 38.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15 ACCCICCIAACCCACACCTCA 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25 ACCTTCACACCCACCTTA 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N75693.1 GI:1238271
                                                                                                     Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequence.
N75693
                                       Rm. 30
84112,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                           The property of the property o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GSS 04-OCT-2000
                                                                                                                                                                                                          Rosso.M., Strizhov.M., Li,Y., Reiss.B., Dekker,K. and Weisshaar.B. A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat) for flanking sequence tag based reverse genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nouse mouse.

Mus musculus

Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;

Masmalla: Eutherla: Rodentia: Sciurognathi: Muridae: Murinae: Hus.

[ Dases 1 to 38)

Dunn, D., Aoyaqi.A., Barbor.M., Beacorn.T., Duval.B., Hamil.C.,

Elsam, H., Longacre.S., Mahmoud.M., Meenen.E., Pedersen.T., Reilly,

M., Rose.M., Rose.R., Stokes.R., Tingey,A., von Niederhausern,A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A245957 Mouse lokb plasmid UUGCIM library Mus musculus genomic-
loope UUGCLMO264G19 P. DNA sequence.
Strizhov, N., Li, Y., Rosso, M., Viehoever, P., Dekker, K., Saedler, H. and Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mouse whose genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           / watch 12.2%; Score 14.6; DB 17; Length 37;
Local Smilarity 69.0%; Pred. No. 1.1e+06;
les 20; Conservative 0; Mismatches 9; Indels 0; Gaps
                                                             A pipeline for automated high-throughput generation of FSTs (flahing sequence tags) from Arabidopsis thallana T-DNA transformed lines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism-"Arabidopsis thaliana"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            91 GCCTTCCATAGCTGCTGAATTGCAGTTTA 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref="taxon:3702"
/clone="GR-177C09-013534"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /strain-"Columbia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A2459577
A2459577.1 GI:10617618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ٥ ر
                                                                                                                                                                                    Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 81
A2459577/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                       REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
```

õ đ

```
was blunt end repaired by repeated passage through a was hydrodynamically sheared by repeated passage through a was hydrodynamically sheared by repeated passage through a 0.005 inch or little at constant velocity. The sheared DNA was blunt end repaired with 74 DNA polymerase and 74 polymerlectide kinase. Adaptor oligonuclectides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarcase gel electrophoresis. Vector DNA was prepared from a derivative of prus4 (gil473214 gpl AR129022.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coll X10°Gold (Stratagene) cells and selected for applicable research and transformed into chemically competent E. coll X10°Gold (Stratagene) cells and selected for applicable research and selected for a process and a selected for a process a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ununcation Supiens

Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
Hammalia: Eutheria: Primates: Catarrhini: Hominidae: Homo.

E. 1 (bases 1 to 43)

KNI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

AL (mpublished (1997)

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov

Fins clone is available royalty-free through LLNL: contact the
INAGE Consortium (inCeflange: lini.gov) for further information.

Trace considered overall poor quality

Insert Length: 1053 Std Error: 0.00
Seq primer: -40UP from Gibco

High quality sequence stop: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43 bp mRNA linear EST 13-FEB-1999 qq37011.X1 Soures_total_fetus_NB2HFB_9W Homo saplens cDNA clone IMAGE:1934737 3' similar to SW:EBN2_EBW P12978 EBNA-2 NUCLEAR PROFIN [1] :, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /lab_host="E. Coli strain XLIO-Gold, T1-resistant, F-"
force="Vector: PMD4Zhv; Purified genomic DNA from M.
musculus G578L/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Gaps
                                                                                                                                                                                                                                                                                                         /db_xref__taxon:10090*
/clone='UUGCIM0511N05*
/clone=Ib='Mouse 10kb plasmid UUGCIM library*
/sex='Nale='
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 12.2%; Score 14.6; DB 17; Length 39; Best Local Similarity 69.0%; Pred. No. 1.1e+06; Hatches 20; Conservative 0; Mismatches 9; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20 CCTAACCCACACCTCATTATCCCCACTCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .43
/organism-"Homo saplens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:9606"
/clone="IMAGE:1934737"
                                                                 High quality sequence stop: 39. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A1351416.1 GI:4088622
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESS 10N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AI351416
                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10.39
// Organismine Plano Sapiens (Ab_xref="taxon:9606" (Ab_xref=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A2650740

39 bp DNA linear GSS 14-DEC-2000 lm0521NO5F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0521NO5 F, DNA sequence.
A2650740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Robert B. Weiss
University of Urah Genome Center
University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Butaryota, Herazoa; Chordata; Craniata; Vertebrata; Eutelcostomi; Euteryota; Herazoa; Chordata; Craniata; Vertebrata; Eutelcostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Musi, Chases 1 to 39)

Bunn, D., Aoyaqi, A., Barber, M., Beacorn, T., Duun, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Mright, D., Meiss, R.
Mouse whole genome scaffolding with paired end roads from lokb plasmid inserts
                                                                                                                                                                Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Fax: 316 286 1810
Fax: 314 286 1810
Fax: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 12.2%; Score 14.6; DB 14; Length 39; Best Local Similarity 64.5%; Pred. No. 1.1e+06; Matches 20; Conservative 0; Mismatches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0521 row: N column: 05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  85 TCGATTGGCTTCCATAGCTGCTGAATTGCAG 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Genome Res. 6 (9), 807-828 (1996)
97044478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seg primer: CGTTGTAAAACGACGGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A2650740.1 GI:11785531
                                                                                                                             Contact: Wilson RK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 83
A2650740/c
                 JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOHRNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
```

```
was blunt end-repaired with T4 DNA polymerase and T4
polymucleotide kinase. Adaptor of oligonucleotides were
ligited to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb ange using preparative agarose gel
electrophoreals. Vector DNA was prepared from a derivative
of pMD.2 (9147321419blAR129072.1), a copy number
indicible derivative of plasand RI. The westor was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared adaptored mouse DNA was annealed to
chemically competent E. coll XIIO Gold (Stratagene) cells
and selected for amplitin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organsm-Mus musculus*
/organsm-Mus musculus*
/draft=in-C2Plus/64/
/db.ref="texton:10090"
/clore="texton:10090"
/clore="texton:10090"
/clore="texton:10090"
/sex-Male*
/sex-Male*
/clore="texton: PAD4Anv: Purified genomic DNA from H.
/note-"vector: PAD4Anv: Purified genomic DNA from H.
/note-"vector: PAD4Anv: Purified genomic DNA from H.
/note-"textory Mouse DNA Mesource
(http://ww.jax.org/resources/dourments/danses/). The DNA
vas hydicdynamically sheared by repeated passage through a
0.005 inch orlitice at constant velocity. The sheared bbh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A258123 46 bp DNA linear GSS 13-DEC-2000 HM358NIER WOUSE 10bp DLSAMIG WUCCIM library Mus musculus genomic clone unccim0569NIE k, DNA sequence. A258123 GT:11696100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa: Chordata; Cranlata; Vertebrata; Euteleostomi.
Nammalia: Eutheria. Rodentia; Sciurognathi: Muridee: Murines; Mus.
1 (bases i to 46)
Dunn.o., Aoyugi.A. Harbert.M. Heecon.T., Duval.B., Manil.C.,
Islam.H. Longacre.S. Harboud.M. Neenen.E., Pedersen.T., Relily
Islam.H. Rose, M. Rose, R. Stokes.R., Tingey, A., von Niederhausern, A.
and Wright.D. Welss.R. Stokes.R. Tingey, A., von Niederhausern, A.
and Wright.D. Welss.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                         12.2%; Score 14.6; DB 17; Length 45; 62.2%; Pred. No. 1.2e+06; tive 0; Mismatches 14; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27 CACACCTCATTATCCCCACTCCAGAGGGATTCAGGGG 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 CANACTTATATGCCCCAGTACAGGGGAACACCAGGG 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Enall ddunningdenetics.utah.edu
Insert Length: 10000 5td Error: 0.00
Plate: 0365 row: N column: 16
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 46.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        plasmid inscrib
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 23; Conserv
                                                                                                                                                                                                                                                                                                                                               14 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  84112,
                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 onrce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 86
AZ581263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                      Contact: Robert B. Weiss
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /sex-Wale.
// About-E. Coll Strain XIIO-Gold, TI-resistant, F-Mote-Vector: PMD42nv: Purified genomic DNA from N. musculas CTSULG, (Rate) was obtained from the Jackson Charter/Y Mouse DNA Resource and the Charter/Y Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orlfice at constant velocity. The sheared DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A4420013
44402109174 Wouse 10kb plantd UUGCIM library Hus musculus genomic clone UUGCIM0210917 F. DRA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EUKATYOTE, METAZOB, Chordata; Craniata; Vertebrata; Eutelecstoml; Manmalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. Dunb. D., Angal.A., Barber.M., Beacorn.T., Duval.B., Hamil.C., Talam, K., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Rose, M., Rose, M., Rose, M., Bouland, M., Meridht, D., Weiss, R., Tingey, A., von Nicderhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                      y Metch 12.2%: Score 14.6; DB 9; Length 43; Local Shilarity 59.0%; Pred. No. 1.1e+06.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Acception="Mus musculus"
/strain="CS/BL/6J"
/db_xref="taxon:10090"
/clone="uGC|M0210917"
/clone="lub="Mouse 10kb plasmid UUCCIM library"
/sex="Male"
   /clone_lib="Scares_total_fetus_mb2HF8_9w"
/dev_stage="8-9 weeks"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Phail: ddunnégenetics.utah.edu
Insert Length: 100 00 Std Error: 0.00
Plate: 0210 row: P column: 15
Seg primer: CGTTGAAAACGACGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17 CCTCCTAACCCACACCTCATTATCCCCAC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 CCTCCACAACCAACCCGTCCTCTCTC 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     High quality sequence stop: 45.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AZ428033.1 GI:10552046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 85
A2428033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOURNAT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
```

```
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokandai, Minatoku, Tokyo 108-8639, Japan
4-6-1, Shirokandai, Minatoku, Tokyo 108-8639, Japan
Emall: ysuzukitens-Uckyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
Eukaryota: Metazoa: Chordata; Craniata: Vertebrata: Euteleostomi;
Hammalia: Eutheria: Primates: Catarrhini; Hominidae; Homo.

1 (Dases 1 to 50)
Suzuki, Y., Taira H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ora, T., Isogai, T., Tanda, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata, H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear EST 30-AUG-2001
                                                                                                                                                                                                                                                                         EST 30-AUG-2001
                                                                                                                                                                                                                                                                      AU102946 AUG-200 AUG-200 AUG-200 AUG-200 AUI02946 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone ADSE01729, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               50 bp mRNA linear EST 30-AUG-200 AU108029 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone AU108029,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
Bukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia: Butheria; Primates; Catarrhini: Hominidae; Homo.
1 (bases 1 to 50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
//organism="Homo sapiens"
//clone=_HobsE01729"
//clone=_Iib="Sugano Homo sapiens CDNA library"
//note="Differential display comparison of untreated and dimcthylemarate treated 997 cells"
//ore="Differential display comparison of untreated and dimcthylemarate treated 8 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12.2%; Score 14.6; DB 9; Length 50; Ilarity 62.2%; Pred. No. 1.2e+06; Conservative 0; Mismatches 14; Indels
                                                                                      17 CCTCCTAACCCACACCTCATTATCCCCACTCCAGAGGGATTCAGG 61
  Best Local Similarity 57.8%; Pred. No. 1.2e+06; Matches 26; Conservative 0; Mismatches 19; Indels
                                                                                                                 42 CCACTCCAGAGGATTCAGGGGTTCCAGCGTTCCTGA 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AU102946
AU102946.1 GI:13552467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AU108029.1 GI:13557551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
Matches 23; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      numan.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                      RESULT 88
AU102946/c
                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORCANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE
                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                    VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AU108029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                      SOURCE
                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was prepared for a 9.5 to 10.5 kb range using preparative agarose gel ectrophoresis. Vector DNA was prepared from a derivative of pwv4.2 (gild/32114 [gb]AR129072.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coll XL10-Gold (Stratagene) cells and selected for ampicilin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1-3) Yamada-oka, Suita, Osaka Pref. 565, Japan
Tel: 06-877-5111(ex.3315)
Email: kousakueimcb.osaka-u.ac.jp
Human Gene Signature. 3' -directed cDNA sequence. We are not
submitting the same cDNA sequence redundantly to DBLS since 1993.
For the abundance information of clones with this sequence in this
library and as well as in other 3'-directed libraries, see'
http://www.lmbb.osaka.u.ac.jp/bodymap'. The sequences of the clones
represented by this Gs sequences is also found there.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Note-Torgan: Blood: Vector: 1-gt-11; Site_1: Eco-RI:
Monocytes were prepared from blood by ficoll-hypaque,
percoll and T cell rosetting purification steps (purity:
96 t). mRNA was prepared from activated monocytes from a
patient with rheumatoid arthritis. mRNA was reverse
transcribed with MuLV. Using Eco-RI linkers CDNA was
cloned into 1-gt-11 vector arms. The CDNA library was
specemed by differential hybidization using radioactively
marked ss-CDNA from activated and non-activated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C21077 49 bp mRNA linear EST 23-OCT-1996 HUMGS0002591 Human adult (X.Okubo) Homo sapiens cDNA 3', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 49)
Okubo,K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 12.2%; Score 14.6; DB 17; Length 46; Best Local Similarity 81.0%; Pred. No. 1.2e+06; Matches 17; Conservative 0; Mismatches 4; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12.2%; Score 14.6; DB 14; Length 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"Homo sapiens"
/db_xref="taxon:9606"
/clone_lib-"Human adult (K.Okubo)"
/dev_stage-"adult"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Institute for Molecular and Celluiar Biol
Osaka University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BodyMap; human gene expression database Unpublished (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26 AAATTGATTCATTGGCTTGCA 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78 AAAATGATCGATTGGCTTCCA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C21077.1 GI:1622187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Okubo, K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sednence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 87
C21077/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
```

```
Anote-"vector: PWD42nv: Purified genomic DNA from H. masculus C59EL/G1 (male) was obtained from the Jackson Laboratory Nouse DNA Hesources.

Laboratory Nouse DNA Hesources.

(http://www.jax.org/resources./documents/dantes/). The DNA was hydrodynam.cally sheared by repeated passage through a 0.005 lunch orifice at constant velocity. The sheared DNA was blunt end-repaired with 74 DNA polymerase and 74 polymorleoLide kinase. Adaptor oligonocleoLides were injected to the blunt ends in high molar excess. The adaptored to the blunt ends in high molar excess The adaptored to was purified and size-selected for a 9.5 to 10.5 k range using preparative agarose gel ectrophoresis. Vector DNA was prepared from a derivative of pWD42 (9:14732114(b)Ar129072.1), a copy.number inductable derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coll XL10-Gold (Stratagene) cells and selected for ampiciallin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA868967 34 bp mRNA linear EST 04-JAN-1999 ak55q04.s1 Soares_Lest1s_NHT Homo sapiens CDNA clone IMAGE:140910 ab 1 similar to SW:TS24_MOUSE P53995 PROTEIN TSG24 ;, mRNA sequence. AA868967.1 GI:2964412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs: Yefmail.nih.gov
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cold. Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGPA clone distribution information can be
found through the I.M.A.G.E. Consortium/LLML at:
www-bio.llni.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note-"Vector: pT/T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI: 1st strand cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vortebrata; Euteleostomi; Hammalia; Eutleria; Primates; Catarrhini; Hominidae; Homo.

[ Dases 1 to 34)
NCT-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
NATIONAL CANCER INSTITUTE, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9; Indels 0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.2%: Score 14.6; DB 17; Length 50: 69.0%; Pred. No. 1.2e+06; tive 0; Mismatches 9; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Insert Length: 1003 Std Error: 0,00
Seq primer: 40ml3 fdd. ET from Amersham
High quality sequence stop: 1.
Location/Oualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone_lib-"Soares_testis_NHT"
/sex-"male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 CATAGTGACCCTCCTAACCCACACCTCAT 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone-"IMAGE:1409910"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /lab_host-"DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 69.0%
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 91
AA868967/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
TIILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                              Department of Virology
Institute of Medical Science, University of Toxyo
4-6-1, Shrokanedal, Minachu, Toxyo 108-8639, Japan
Brail; Yaruthifins, u-toxyo acc. jp
Small; Yaruthifins, u-toxyo acc. jp
Suzuki; Yaruthicone-Nakagawa, K., Naruyama, K., Suyama, A. and Sugano
Suzuki; Yarutochon and Characterization of a full length-enriched and
a 5'-end-enriched CDMA library. Gene 200 (1-2), 149-156 (1997).
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert B. Weiss
University Otah Genome Center
Dijversity of Utah
Rm. 308. Biomedical Polymers Research Bldg., 20 S. 2030 E., SiC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A&416047 John St. Day DNA linear GSS 03-0CT-2000 JMO18121F Mouse 10kb plasmid UVGCIM library Mus musculus genomic clone UGCIM0191E11 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Weetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. (bases 1 to 50)
Uunh, D., Aoyasi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, M., Longacre, S., Mahmoud, M., Menen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts.
                                                                                                                                                                                                                                                                                                                                                                                          /Organism-"Homo sapiens"
//db_zref="Laxon:9606"
//db_zref="Laxon:9606"
//clone_lib="KulA2367"
//clone_lib="Sugano Homo sapiens CDNA library"
//noce="Differential display comparison of untreated and dimethy! fumaret treated U937 cells"
a l6 c 15 g 12 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /sex-"Male"
/lab_host-"E, Coli strain XL10-Gold, Tl-resistant, F-"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 12.2%; Score 14.6; DB 9; Length 50; Best Local Similarity 81.0%; Pred. No. 1.2e-06; Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db_xref="taxon:10090"
/clone="UUGC1H0191E11"
/clone_lib="Mouse 10kb plasmid UUGCIM lib;ary"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0191 row: E column: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seq primer: CGTGTAAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 50.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Mus musculus" / Strain="C57BL/6J"
                  EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 86 CGATTGGCTTCCATAGCTGCT 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30 CGATTGGCATCCTCAGCCGCT 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AZ416047
AZ416047.1 GI:10540060
                                                                                                        Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ر
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Source
                                                                                                                                                                                                                                                                                                                                                                               Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 90
A2416047/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
COMMENT
                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEYWORDS
                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
```

õ đ TITLE

ô

```
Trace considered overall poor quality Insert Length: 1092 Std Error: 0.00 Scg primer: -40ml3 fwd. Er from Amersham High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                 92 GCTTCCATAGCTGCTGAATTGCAG 115
                                                                                                                                                                                                                      33 GCGTACATACCATCTGAAATGCAG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                     AA996016.1 GI:3182505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                         RESULT 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
                                                                                                                                                                                                   ŝ
                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enkaryota; Mecazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi: Muridae; Murinae; Mus. Mammalia; Eutheria; Rodentia; Sciurognathi: Muridae; Murinae; Mus. I (Abara, M., Billier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Gelsel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wille, T., Lenon, G., Soares, B., Wilson, R. and The Washu-HHMI Mouse EST Project
Unpublished (1996)
Contact: Warra Mydouse EST Project
Washington University School of Medicinep
H44 Pocest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA869987

34 bp mRNA linear EST 16-MAR-1998
vgl0c0.in: Barstead stromal cell line MPLRBB Mus musculus CDNA
clone IMAGE:1093824 5' similar to SW:COX3_RAT P05505 CYTOCHROME C
OXIDASE POLIPEPTIDE III ;, mRNA sequence.
was prepared from mRNA obtained from Clontech Laboratories
                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: mouseestewatson wustl.edu
This clone is available royalty-free through LLNL ; contact the
INAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                 Length 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Putative full length read
vector to vector length is 1058
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev2 ET from Amersham
                                                                                                                                                                                               ch 12.0%; Score 14.4; DB 9; Length 34. Is Similarity 65.6%; Pred. No. 1.2e+66. in 12. Conservative 0; Mismatches 11; Indels 21; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                       74 CCTGAAAATGATCGATTGGCTTCCATAGCTGC 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Trace considered overall poor quality
Putative full length read
                                                                                                                                                                                                                                                                                             34 CCTCACAATGTCCAAGTGGCTGCAGTGGTTGC 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA869987.1 GI:2965432
                                                                                                                                                                                             Query Match
Best Local Similarity
Natches 21; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA869987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                RESULT 92
AA869987/c
                                                                                                                                                                                                                                                                                                                                                                                                   LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
```

```
Tumor Gene Index
Unpublished (197)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nlh.gov
Tissue Procurement: Christopher Moskaluk, H.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCT-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
Library constructed by Bob Barstead. The C2C12 cell line (available from ATCC, catalog # CRL-1772) differentiates rapidly, forming contractile myotubes and producing characteristic muscle proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA996016

34 bp mRNA linear EST 27-JUL-1998 os26610.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1606483 3' similar to TR:Q69340 Q69340 ORF1, ORF2, AND ORF3. ;contains MSR1.b1 MSR1 repetitive element ; mRNA sequence.

AA996016
                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Hetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 34) MCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap. NGI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap. National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   constructed by Bento Soares and M. Fatima Bonaldo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo saplens"
/db_xref="taxon:9606"
/clone="IMAGE:160483"
/tissue_type="2" pooled tumors (clear cell type)"
/lab_host="0H108"
                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                   Query Match 12.0%; Score 14.4; DB 9; Length 34; Best Local Similarity 75.0%; Pred. No. 12e+06; Adebs Matches 18; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12.0%; Score 14.4; DB 9; Length 34; 75.0%; Pred. No. 1.2e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
```

```
Jy bp DNA linear GSS 27-APR-2001 ZN027611F Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0276911 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biomedical Polymers Research Bldg., 20 S. 2030 F., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fukeryotta, Metazoa, Chordata; Craniata, Vertebrata; Euteleostomi; Manalia; Euteleostomi; Monalia; Euteleostomi; Monalia; Euteleostomi; Moses i to 39]

Lobses i to 39]

Elabar V. Longerte, Rarbert, Weacorn, T. Duval, B., Hamil, C., 131am, K., Longerte, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, K., Stokes, R., 11ngey, A., von Niederhausern, A., and Might, D., Weiss, R., 2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Watch 12.00; Score 14.4; DB 17; Length 39; Best Local Similarity 65.54; Pred. No. 1.3e+06; Marches 21; Conservative 0; Hismarches 11; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PMail: ddunn&genetics.utah.edu
insert.tenghi: 1000. Std. Frror: 0.00
Plate: 0276 row: P column: 11
Seq primer. CGTGTAAAACGACGGCAGT
Class: plasmid ends ends ends quality sequence stop: 39.
High quality sequence stop: 39.
    17 CCTCCTAACCCACACCTCATTATCCCCACTCC 48
                                plasmid inserts
Uppublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                   A2591808.1 GI:13863035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                        denote asund
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NS₩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rm. 301
84112,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                           ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                         RESULT 95
AZ991808
                                                                                                                                                                                                                                                                                                                                                                               KETWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // Jab. host. E. Coll strain XLIO-Gold. Ti-resistant, F. Note-Vector: PMOAZO: PUTIGE defended. The final by Moazo: Putigled genomic DNA from M. Mosce-Vector: PMOAZO: Putigled genomic DNA from M. Mosce-Vector: PMOAZO: Putigled genomic DNA from M. Daboratory Wouse DNA Resource (Attp://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated possage through a 0.005 inch oritice at constent velocity. The sheared DNA was blunt end: repaired with Tt DNA polymorlectide kinase Adaptor oligonuclectides were adaptored the blunt ends in high molar oxcess. The saperced by was purified and size spiceted for a 9.5 to 10.5 kb range using preparative agazose gel electrophoresis. Vector DNA was prepared from a derivative of pwok (4014732141901721), a copy number inducible derivative of plasand 81. The wector was ligated with adaptors complementary to the insert adaptors and putflied. The sheared adaptored mouse DNA was annealed to adaptored vector DNA, and fransformed into chancelly competent E. coll XIIO-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Enkaryotts Metazoa; Chordota; Craniata; Vertebrata; Euteleostona; Choranalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. L. Ubasas it to 30 in Eutheria; Rodentia; Sciurognathi; Muridae; Mus. L. Itabasas it to 30 in Eutheria; Baccorn I. Duval, B. Hamillo.; M. Rose M. Longarers. S. Mahmoud M.; Menen; E. Pedersen; T. Reilly and Mrighto, Meiss, R.; Tingey, A.; von Niederhausern, A. Rose M. Rose, R.; Stokes, R.; Tingey, A.; von Niederhausern, A. Rose M. Rose, R.; Stokes, R.; Tingey, A.; von Niederhausern, A. House whole genome scaffolding with paired end reads from 10kb possestity of Utah (200)
Contoct: Robert B. Meiss
University of Utah
Romedical Polymers Research Bidg., 20 S. 2030 E.; SLC. UT Bill 13, 108 S. Son 108 
                                                                                                                                                                 38 bp DNA linear GSS 03-OCT-2003 INO2020505 Mouse 10kb plasmid UNGCIM library Mus musculus genomic AZ424085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /Organism="Mus musculus"
/strain="C57BLGJ"
/strain="C57BLGJ"
/Clone="UUGCIM0103805"
/Clone="Ib="House 10kb plasmid UUGCIM library"
/Sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query March
12.09; Score 14.4; DB 17; Length 38;
Best Local Similarity 65:64; Pred. No. 1.2e+06.
Marches 21; Conservative 0; Mismarches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Paril: ddunnfgenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0203 row: 8 column: 05
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 38.
Location/Qualifiers
AZ424085.1 G1:10548098
                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                    house mouse.
                                                                                                                                                                                                              LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                     RESULT 94
A2424085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                       KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
```

```
/organism="2ea mays"
/organism="2ea mays"
/organism="2ea mays"
/outivar="mixed background W23/A188/B73"
/db_xref="taxon:4577"
/clone_lib="1008 - RescueMu Grid I"
/clssue_type="leaf"
/dev_stage="adult"
/lab_bost="DH10B"
/orde='Organ: leaf' Vector: RescueMu (engineered from pBlueScript backbone); Site_I: BamHI: Site_2: BglII:
RescueMu is a 4.9 kb, modified malze Mu transposon dessigned to allow plasmid rescue from total genomic DNA. Wu elements insert preferentially into transcription units. For more information on RescueMu, go to the veb site www.amdb.isastate.edu and Gollow the links for 'RescueMu.' Grid I was grown at Berkeley in 2001. DNA was extracted from leaf punches. Abuble digested using BamHI and BglII; and ligated to form circular plasmids. DH10B colls wet transformed and then screened on LB plates with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GSS 03-OCT-2000
                                                                                   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC
clade; Panicoideae; Andropogoneae; Zea.
                                                                                                                                                                                                             1 (bases 1 to 40)
Walbot, V.
Maize genomic sequences found using engineered RescueNu transposon
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi. Mammalla: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Musil (bases 1 to 41)

1 (bases 1 to 41)

2 (bases 1 to 41)

2 (bases 1 to 41)

3 (bases 1 to 41)

4 (bases 1 to 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A2423755
41 bp DNA linear GSS 03-0CT-200
1M0203C23F Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0203C23 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Stanford University
855 California Ave, Palo Alto, CA 94304, USA
855 California Ave, Palo Alto, CA 94304, USA
Fax: 650 725 8221
Bmail: walbovestanford.edu
Fax: 650 725 8221
F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 12.0%; Score 14.4; DB 17; Length 40; Best Local Similarity 75.0%; Pred. No. 1.3e+06; Matches 18; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7
                                                                                                                                                                                                                                                                                                                                                                           Contact: Walbot V
Department of Biological Sciences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      53 GGATTCAGGGGTTCCAGCGTTCCT 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5 GCTCCAGGGTCCACGGTTCCT 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A2423755.1 GI:10547768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ampicillin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOURCE
                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                       TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 98
A2423755
                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA973240 or30h05.sl NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1597401 3' similar to TR:015054 015054 KIAA0346;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       //octe="Vector: pT73D-Pac (Pharmacla) with a modified polylinker: 1st strand cDNA was prepared from 3 pooled germ cell tumors, and was then primed with a Not I oligo(dT) primer: Double-stranded cDNA was ligated to Eco RI addaptors (Pharmacla), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library is not normalized. Library was rostsructed by Bento Soares and M. Fatima Bonaldo. " 15 c 21 g 1 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates: Catarrhini; Hominidee; Homo.
1 (bases 1 to 40)
MCT-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D. Sandt: cgapbs remail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.0%; Score 14.4; DB 9; Length 40; 75.0%; Pred. No. 1.3e+06; tive 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/organism="taxon.9606"
/clone="IMAGE:1597401"
/clone=_INb=="KNI_CGAP_GC3"
/tissue_type="pooled germ cell tumors"
/lab_host="DH108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Trace considered overall poor quality Insert Length: 420 Std Error: 0.00 Seq primer: -40ml3 fwd Er from Amersham High quality sequence stop: 1. Location/Qualifiers
87 GATTGGCTTCCATAGCTGCTGAATTGCAGTTT 118
                                                   35 CCCCCCCCAGGGGGGCTCTGGGG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      40 CCCCACTCCAGAGGGATTCAGGGG 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA973240.1 GI:3148420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 75.0 es 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                          AA973240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                               VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                        RESULT 96
AA973240/c
                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 97
BH797868
                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
```

```
LOCUS

AA011545

AA011545

DEFINITION 2102004-8.1 Soares_fetal_liver_spleen_lNFLS_S1 Homo saptens CDNA
clone INAGE:429607 3' similar to PIR:547273 547273 p749 protein -
ACCESSION AA011545.1 GI:1472571

VERSION AA011545.1 GI:1472571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
Eukaryote; Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryote; Metazoa: Chordata; Catorrhini; Hominidae; Romo.
1 (bases) to 43)
Hillier L. Chark M. Dubuque; T. Elliston, K. Hawkins, M. Holman
M. Hultman, M. Kucaba, T. Jo. M., Lennon, G., Marra, M., Parsons, J., Krikini.
K. Williamson, A. Wohldman, P. and Wilson, R. Waterston
K. Williamson, A. Wohldman, P. and Wilson, R.
Uppublished (1955)
Contact: Wilson RR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 43
/db_xref="taxon:9606"
/don="brEpd.441222"
/clone="brEpd.441222"
DH10B: sites Norl 'Sall' host
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Fax: 314 286 1800
Fax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 12.0%; Score 14.4; DB 2; Length 43;
Best Local Similarity 72.0%; Pred. No. 1.3e+06;
Matches 18; Conservative 0; Mismatches 7; Indels 0; Gaps
                                                                                                                                                                                             clone from S. Wiemann, sequenced by LMU within the CDNA sequencing consortium of the German Genome Project Mo Si Sequence available the SEPD in Berlin This clone is available at the RZPD in Berlin Places contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERNANI: Email: clone87260-de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/db_xret="COB:1312976"
/db_xret="COB:1312976"
/db_xret="Laxon:9606"
/clone="laxon:6606"
/clone=lib="Soares_fetal_liver_spleen_lNFLS_S1"
                   ]-43
Blum H., Bauersachs S., Mewes W., Gassenhuber J., Micmann S.:
                                                                                                      Submitted (12-MAR-1999) to the EMBL/GenBank/DDBJ databases.
MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 43 BP; 9 A; 9 C; 10 G; 13 T; 2 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /dev_stage-"adult"
/tissue_type="testis"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62 GGTTCCAGCGTTCCTGAAAATGATC 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32 GGTACGGCGTTCCAAAAACGNTC B
                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE
CRCANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 100
AA011545/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                       (http://www.jax.org/resources/ocuments/dnares/). The DNA was hydrodynalically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerses and T4 polymuclectide kinase. Adaptor olisonotlectides were ligated to the blunt ends in high molar excess. The adaptored by a was purified and size-selected from a derivative of phDA was purified and size-selected from a derivative of phDA signification by a signification of the sample with adaptore of the sample with adaptore of phSMA was namealed to derivative of phSMA signified. The sheared, adaptored mouse DNA was manealed to adaptored occupantly competent E. coli Xil0-Gold (Stratagene) cells and selected for ampleillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (human)
Eukaryota: Wetazoa: Chordata; Craniata: Vertebrata: Euteleostomi: Mammalia;
Eutheria; Primates; Cratzfildi; Nominidae; Homo.
Contact: Robert B. Weiss University of Utah Genome Center University of Utah Genome Center University of Utah Rm. 1908. Biomedical Polymers Research Bidg., 20 S. 2030 E.. SLC, UT 84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       //de_host=*E. Coli strain Xilo-Gold, Ti-resistant, F-*/Anote-*Vector: Pwordizhy. Purifited genomic DNA from M. Anotes-Vectoris (Pmole) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 12.0%; Score 14.4; DB 17; Length 41; PB est Local Similarity 65.6%; Pred. No. 1.3e+06. No. 18erole Matches 11; Conservative 0; Mismacches 11; Indels 0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens mRNA; EST DKF2p434N2222_rl (from clone DKF2p434N2222)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db_xrief="taxon:10090"
/clone="fucci#0205c23"
/clone=1tb=#bouse 10kb plasmid UUGCIM library"
/sex="#ale"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-MAR-1999 (Rel. 59, Created)
12-MAR-1999 (Rel. 59, Last updated, Version 1)
                                                                                                                                                                                                                                        Dimail: dudunfégentics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0201 row: C column: 23
Seq Primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Mus musculus"/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             High quality sequence stop: 41. Location/Qualifiers
                                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                   COMMENT
```

g ò

```
BASE COUNT
ORIGIN
```

Gaps ö Query Match 12.0%; Score 14.4; DB 9; Length 43; Best Local Similarity 69.2%; Pred. No. 1.3e+06; Matches 18; Conservative 0; Mismatches 8; Indels

ö

용 ò

Search completed: June 17, 2003, 22:01:41 Job time : 1381 secs